

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 22nd Year • Single Copy: \$1.25

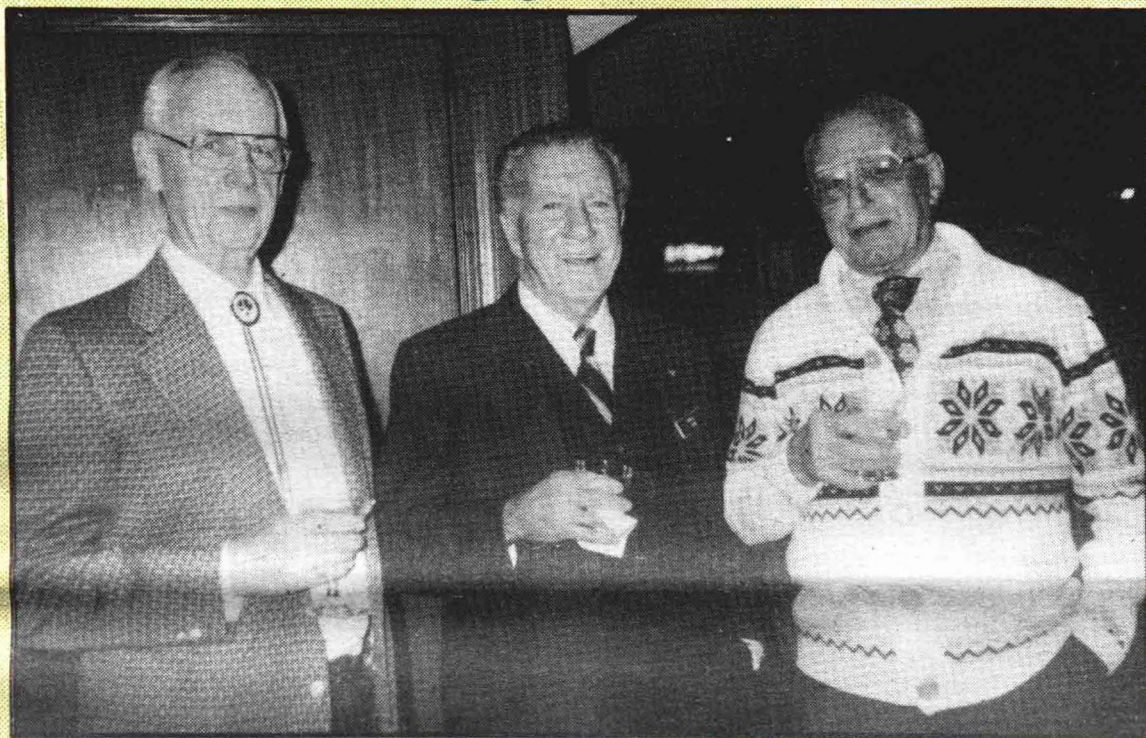
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Hamming for 179 Years



When the Milwaukee Radio Amateurs Club held its annual Old Timers Party in December, Ed Seruga, KE9JJ, captured the above gentlemen on film. They have been hamming it up for a total of 179 years. They are, left to right, Roman Hudzinski, W9JPS (53 years); John Scarvaci, W9GIL (62 years); and Bill Brossman, W9EQP (64 years). Read more about the Old Timers Party on page 6 of this issue.

ARRL Board Meets

Won't Ask for No-Code Reconsideration; Protects Membership for Desert Storm Radio Amateurs

The American Radio Relay League's Board of Directors met in Farmington, Connecticut, January 18 and 19, 1991. Here are highlights of Board actions:

- Adopted a resolution expressing deep concern for radio amateurs and ARRL members in harm's way in the Middle East, and amended the ARRL Bylaws to ensure that service in connection with operation Desert Storm does not affect any League member's membership continuity.

- Responding to the general support expressed by the amateur community for the FCC codeless Technician license decision granting all privileges above 30 MHz, determined that the League would not petition for reconsideration.

- Directed staff to implement a program for the field checking of QSL cards for initial applications for DXCC, as set forth in guidelines specified by the Membership Services Committee.

- Authorized the addition to staff of a Public Relations Coordinator to address the need for the League to work actively for the improvement of Amateur Radio's image with the general public. An outside consulting agency will be employed to buttress efforts to develop a continuing public

Transistor Co-Inventor John Bardeen Dies

John Bardeen, a native of Madison, Wisconsin and a co-inventor of the transistor that led to modern electronics, died January 30 in a Boston hospital at age 82.

Twice a winner of the Nobel Prize in Physics,

Bardeen grew up in Madison and studied at the University of Wisconsin.

A soft-spoken theoretical physicist, Bardeen

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ELMER



Swapfests and Other Social Events

SUNDAY, MARCH 24, 1991. Lamarsfest, Lake County Fairgrounds, Grayslake, IL. Contact LA-MARS, Box 751, Libertyville, IL 60048. Commercial exhibitors call Frank Avellone, W9GL0, (708) 295-6300.

SUNDAY, APRIL 7, 1991. MARA Swapfest, Madison WI. (See ad this issue.)

SATURDAY, APRIL 13, 1991. Rochester, MN Hamfest. Contact John Scott, NOHZN, 2824 24 St. NW, Rochester, MN 55901

SUNDAY, APRIL 14, 1991. Amateur Radio and Computer Fair, Rockford, IL. Forest Hills Lodge, 9900 Forest Hills Rd. (at IL Rt. 173). Contact Rockford ARA, 200 Westmoreland Ave., Rockford, IL 61102.

SATURDAY, MAY 4, 1991. 13th annual Cedarburg Swapfest at the Circle-B Recreation center, Highway 60 and County I. Contact: ORC Swapfest, 11448 Laguna Drive, Mequon, WI 53091. (414) 242-4995.

SATURDAY, MAY 4, 1991. The Ozaukee Radio Club will sponsor its thirteenth annual Cedarburg Swapfest at the Circle-B Recreation Center, Highway 60 and County I. Contact ORC Swapfest, 11448 Laguna Drive, Mequon, WI 53092. (414) 242-4995

SATURDAY, MAY, 11, 1991. Lakeshore Swapfest, Manitowoc, WI.

SUNDAY, JUNE 16, 1991. 14TH ANNUAL CWRA Swapfest, Stevens Point, WI. University Center, UW Stevens Point. Exams available, see test-point. Contact: Art Wysocki, N9BCA, 3356 April Lane, Stevens Point, WI 54481. (Watch for flyer ad in May issue and see ad on back page.)

SATURDAY, JULY 6, 1991. South Milwaukee Swapfest. (See ad on last page this issue.)

SATURDAY, JULY 27, 1991. Annual Eau Claire

Hamfest and Computer Expo., Eau Claire, WI. Contact: Liz Searing, 1129 McKinley Road, Eau Claire, WI 54701. (715) 834-1303.

AUGUST 23-25, 1991. 1991 ARRL NATIONAL CONVENTION AND HAMFEST. Saginaw, Michigan. Contact: 1991 National ARRL Convention, P.O. Box 1783, Saginaw, Michigan.

SEPTEMBER 21-22, 1991. PEORIA SUPERFEST. Exposition Gardens, Peoria, IL. Contact: Peoria Area Amateur Radio Club, P.O. Box 3508, Peoria, IL 61612-3508.

SUNDAY, OCTOBER 13, 1991. KMRA Swapfest, Waukesha, WI. Contact: KMRA Swapfest, P.O. Box 276, Waukesha, WI 53187-0276

SUNDAY, NOVEMBER 3, 1990. The FOXCITIES HAMFEST 91, will be held at the Starlite Club on Hwy. 55 North of Kaukauna. For information contact Don Baker, NB9J, 621 W. 7th St., Kaukauna, WI. 54130. (414) 766-3886.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

Do to space limitations we cannot always carry the full listing of Wisconsin and area club meetings. Please save the following listings for your future reference. We hope to have the full listing at least three times a year, and will carry any changes or additions between full listings.

Badger State Smoke Signals

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Address changes and corrections should be sent to Kenneth A. Ebner, address above.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger,

address above.

Inquiries about advertising should be directed to Kenneth A. Ebner, address above.

Subscriptions should be sent, with check or money order, to Jim Decker, address above.

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Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other organization.

GREEN FOX ARC, WATERTOWN & ROCK RIVER CLUBS

There will be a combined meeting with the Green Fox ARC, The Watertown ARC and the Rock River ARC on Monday, March 11, 1991 at Rhodes Wooden Wheel Restaurant, 1102 Madison St., Beaver Dam.

BADGER AMATEUR RADIO SOCIETY

(W9YT - U. W. - MADISON)

Monthly while school in session - 2nd Wed. - 7:30 p.m. - B-314, Electrical Engineering Bldg.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.

(STEVENS POINT)

Second Wed..

EAU CLAIRE AMATEUR RADIO CLUB

2nd Tue. - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)

First and third Tue.s - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB

Third Mon. - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 766-3886.

GREATER MILWAUKEE DX ASSOCIATION

Fourth Mon. of the month at 7:30 p.m. Contact Jerry Scherkenbach, N9AW, at (414) 481-8831 for meeting location.

GREEN BAY MIKE AND KEY CLUB

Second Thur. - Red Cross Bldg., corner Danz and Decker, Green Bay.

GREEN FOX AMATEUR RADIO CLUB

Third Mon. - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

There will be a combined meeting with the Green Fox ARC, The Watertown ARC and the Rock River ARC on Mon., March 11, 1991 at Rhodes Wooden Wheel Restaurant, 1102 Madison St., Beaver Dam.

KETTLE MORaine RADIO AMATEURS

Second Fri., 7:30 p.m. at the Waukesha County Technical College, Campus Science Building, Room 102, Talk-in on the N9KS 147.39 repeater.

LAKESHORE RPTR. ASSN.

Last Tue., Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MADISON AREA REPEATER ASSN

The meeting schedule for 1991 is as follows: Mar. 11, Sept. 9 and Nov. 11.

MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed.

General meeting: Second Wed.

Both meetings held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB

Last Tue. - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB

Fourth Thur. - Room #280 Wauwatosa East High School, located at 74th and Milwaukee Ave. in Wauwatosa. No meetings in July, August and December. Meetings begin at 7:00 pm.

NORTHERN WISCONSIN RADIO CLUB

4th Tue. - 7:30 p.m., Sept. through April. Peppermill Restaurant, Thunderbird Mall North, Menomonie, WI. Guests welcome.

NORTHWOODS ARC (RHINELANDER WI)

Third Tue.. Doors open at 7:00 p.m. Meeting at 7:30 p.m. South Park School, Rhineland, WI. Talk-in on 146.93/.34. All interested visitors to the Northwoods are welcomed.

OZAUKEE RADIO CLUB

Second Wed. - 7:30 p.m. - Saukville Community Center.

QCWA - WISCONSIN CHAPTER #55

Contact Robert Halbman, AJ9P, Treasurer, For information about meeting dates or joining QCWA Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162

Meets third Mon. monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB

Second Mon., 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB

First Tue. - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB

Monthly - first Tue. - 7:00 p.m. at Dodge County Sheriff's Department, 141 N. Main, Juneau, WI.

ARES Net: 146.04/146.64 Mon.s at 7:30 p.m. Sat.s on 7277 KHz at 10:30 a.m.

March 11, 1991. See Green Fox ARC.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tue. - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wed. - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC) MEDFORD

Usually the 2nd Thur. of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARS Net, Wed. nights at 8:30 PM on 147.75/15. For info contact: Rolland Walty, W9LEE, W4117 Hwy. 102, Westboro, WI 54490. (715) 427-3492

TRI-COUNTY AMATEUR RADIO CLUB

Sun. of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WASHINGTON COUNTY AMATEUR RADIO CLUB

Tue.: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Mon. 7:30 p.m.

WATERTOWN AMATEUR RADIO CLUB

First Thur. of the month at 7:00 p.m., The Watertown Public Library, 100 S. Water St., Watertown, WI.

March 11, 1991. See Green Fox ARC.

WAUPACA AMATEUR RADIO CLUB

First Sat. in March, June, September and December, at 9:30 a.m. at the Waupaca Fire Station in downtown Waupaca.

"CQ First Tue." - A social gathering and dutch treat luncheon at the King's Table in King, WI, on Highway QQ just south of highways 10 and 54 on the west side of Waupaca.

WEST ALLIS RADIO AMATEUR CLUB

Second Tue. - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tue. - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: Scheduled meeting dates:

Thursday, March 14

Tuesday, April 16

All meeting at the Baraboo Civic Center, Baraboo, WI. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

The Test Point

**Amateur Radio examinations
scheduled in and around Wisconsin**

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added or changed since last months BSSS.)

March 6, 1991	Milwaukee, WI (MRAC)
March 9, 1991	Dubuque, IA
March 16, 1991	Milwaukee, WI (BE)
March 16, 1991	Appleton, WI
March 30, 1991	Menomonie, WI
April 5, 1991	Madison, WI
April 10, 1991	Milwaukee, WI (MRAC)
April 13, 1991	Eau Claire, WI
April 20, 1991	Milwaukee, WI (BE)
April 25, 1991	Marshfield, WI (Tech. only)
April 27, 1991	Marshfield, WI
May 1, 1991	Milwaukee, WI (MRAC)
May 4, 1991	Cedarburg, WI (BE)
	Ozaukee RC Swapfest
May 11, 1991	Manitowoc, WI
June 5, 1991	Milwaukee, WI (MRAC)
June 8, 1991	Dubuque, IA
June 8, 1991	Appleton, WI

June 16, 1991	Stevens Point, WI
July 27, 1991	Eau Claire, WI
August 10, 1991	Appleton, WI
September 7, 1991	Dubuque, IA
October 12, 1991	Eau Claire, WI
October 13, 1991	Waukesha (BE) KMRA Swapfest
November 2, 1991	Menomonie, WI
November 3, 1991	Kaukauna, WI
December 2, 1991	Stevens Point, WI
December 7, 1991	Dubuque, IA
March 28, 1992	Menomonie, WI
November 7, 1992	Menomonie, WI

Monthly, First Sat. Racine, WI
(except January, July & August)
Monthly, Last Sat. Tomahawk, WI
(January thru October only)
Monthly, Third Sat. Loves Park, IL
Minnesota tests listed at end of column

GENERAL RULES
FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walkins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.25 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB
MRAC/VEC
1991 examination dates:

March 6, April 10, May 1, and June 5, 1991
Wauwatosa East High School, North 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly, so testing can be completed before 10:00 p.m. Bring along your original license and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required are a pen and \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545- 6299.

(continued on page 23)

Wisconsin Nets Association Ltd.

Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3984	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	N9IAI
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	2400	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
		(Rhinelander area)			
6:30					
Net	No	01/61	0030	1830	KA9OMC
Gr. Bay	No	72/12	0245	2045	WB9NRK
		(Green Bay area)			
ARES	No	4.65/5.25	0200	2000	
		(South East/South Central Wisconsin)			
RACES	No	3993.5	1815	1215	WC9AAG
		(USB Tuesday and Thursday)			
RACES	No	3993.5	1400	0800	WA9OAY
		(LSB Sunday)			

Section Manager's Notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221



Congratulations to N9JXA, new Local Government Liaison, of Greenfield, who joins with LGL W9KNZ of Brookfield to handle any potential tower ordinance problems.

New officers of Kettle Moraine RA: Pres. WQ9A; V. Pres. KW9E; Treas. KC9BY; Sec'y, WA9BPG.

Fox Cities ARC April meeting features KA9-JAC with a Civil Air Patrol program.

Exams on: **April 5th** at 8 a.m. at Grand Canyon Fire Station sponsored by the Four Lakes ARC, one of the few clubs that meets twice a month, the first and third Tuesdays at the American Red Cross; **April 10th** at East H.S. in Milwaukee; **April 13th** at U.W. Maintenance Bldg. in Eau Claire; and **April 20th** at St. Nicholas Church in Milwaukee.

The Madison Swapfest is April 7th at 8 a.m., sponsored by the Madison Area Repeater Ass'n, held in the Dane County Expo Center Forum Bldg.

Governor's Conference Amateur Radio station is chance to stop in and introduce yourself, usually operating on HF, VHF, and packet radio. (We're sorry, but BSSS has been given no information about the date(s) or location of the conference. -Ed.)

My sister has made 800 parachute jumps, and her husband, WB9LAB, has made 1,300!

K9UTQ reports that his son Scott is KB9DVS,

By Les Peterson, W9YCV
9741 West Howard Avenue
Greenfield, WI 53228

A familiar voice on the SSB nets and fist on the CW nets to many of you is that of Hale Blakely owner and operator of W9CBE.

Our Section Manager, Rich Regent, and I visited Hale during a trip to a FLARC meeting at which Rich spoke on A.R.R.L. matters.

Getting back to the prime subject of this article, Hale was first licensed as W8TYE back in 1939 and soon developed an interest in nets and traffic handling. He also became interested in the field of broadcasting and obtained a First Class commercial ticket in 1940. Broadcasting has been his life work and he still enjoys it on a part time basis as station caretaker for W T S O , 1070 kHz on your dial.

For about a year out in Wyoming, where he copied Trans-Radio press for a local broadcast station, Hale had the call W7-JCH. It was this experience of copying press that sharpened his CW skills. After WWII, he resumed his activities in nets and traffic handling. As a result, he has earned BPL several times, a Net Manager certificate and CAN Liaison certificates.

Currently, you will hear W9CBE as net control on the WI SSB and CW nets as well as on daytime 9RN. He handles a CAN/RX slot for the nighttime 9RN CW net, a TCC function on AMTOR, and a PAN to CAN TCC function as well. You might think Hale spends all of his radio time on the nets but such is not the case. Frequently, he has participated in George Hart's (W1NJM) code proficiency program and has earned the 45 word per minute certificate. The DXCC and WPX certificates tell you that he can be heard chasing that elusive

and nephew Douglas is KB9FGR.

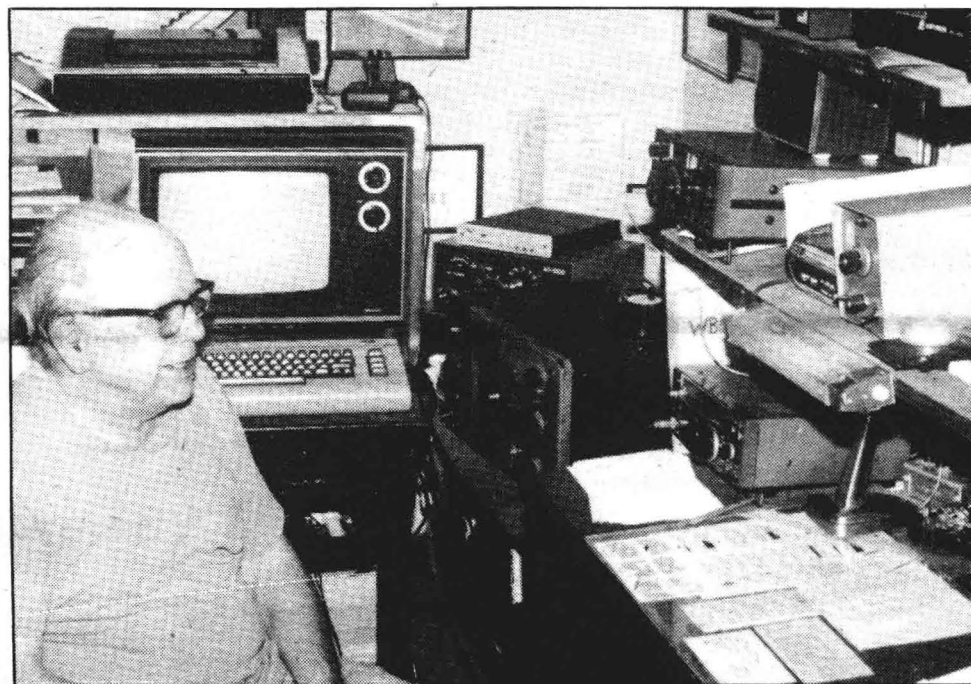
Sorry to report Silent Keys K9ATL and WB9-RBC.

Introducing W9CBE

DX. Take a listen on low-earth-orbit satellites and you could run into him there. Digital modes are another of his interests, so you will find his packet mailbox parked on 145.07. If you operate on 2 meter SSB and CW, you are very likely to have a QSO with W9CBE there as he chases grid squares. So you can easily say that W9CBE is radioactive.

The accompanying photo gives you some idea of the station equipment at W9CBE. On HF, there is an IC-735, or Ten-Tec Argosy and a Johnson Courier amplifier, when needed, which feed a G5RV antenna. For 2 meters, it is a Kenwood TR-9000 into a Tokyo Hy-Power Labs HL160V (again when needed), connected to an eleven element beam. A Commodore C-64, in conjunction with an MFJ-1274, handles his VHF packet mailbox. The computer and a Kantronics terminal unit does the job on the other digital modes.

A comment Hale made during our visit was "Rich, K9GDF, always makes front page on BSSS with his cartoons," which brought a chuckle from Rich, who quickly brought to my attention the sign above the clock in



Hale Blakely, W9CBE

- Photo by Les Peterson, W9YCV

Hale's station which says "Silence--Genius at Work".

Hale, his wife Betty and their dog Spot, live in the Madison suburb of Mc Farland. They have four children and five grand-children, all who live in the area, and liven things when they come to visit. Betty's hobby is the making of ceramic dolls in small to large sizes, many of which are displayed on shelves in their living room. After all, a wife with an amateur operator for a husband needs to have her own hobby.

Wow! Time was up and we wanted to get a bite to eat before going to the meeting, so we had to end our interesting visit. Hopefully, you have enjoyed this visit with Hale as much as Rich and I did. □

Thought of the month: *If anything is used to its full potential, it will break.* □



HERE and THERE

REMINDER: The Wisconsin QSO Party, open to all radio amateurs anywhere, will be held from 1800Z March 10 to 0100Z March 11, 1991. (That's from 12 noon until 7 p.m. Sunday, March 10). The rules, a multiplier list, and a score summary sheet were published in the February issue of this newspaper. You may use the form as it was published, a good quality photocopy of it, or you may request a form from the party's sponsor: The West Allis Radio Amateur Club, P.O. Box 1072, Milwaukee, WI 53201. The official results of the party will appear in a future issue of this newspaper, and all entrants will receive a copy of that issue.

MID-EAST SHORT WAVE BROADCASTS: English language broadcasts from the following stations may be of interest during the Persian Gulf conflict:

TIME (UTC)	COUNTRY	FREQUENCY
0000	Egypt	9675
0000	Israel	9435
		11605
0230	Iran	9500
		11825
0330	UAE	11940
0530		15435
1100	Jordan	13655
2000	Iraq	13660

- Hamsplatter,
Ft. Wayne (IN) Radio Club

SOUTH MILWAUKEE SCHOLARSHIPS: The South Milwaukee Radio Club has been awarding \$500 scholarships to deserving amateurs recently. During 1990, they had four winners, for a total of \$2,000. This year, they are searching for candidates for two scholarships. Plans are in the works to offer two more scholarships in 1992, as well.

These \$500 scholarships are open to young people in the ninth call area, certainly to those in Wisconsin, with scientific, literary, and educational pursuits. More information and specific requirements can be obtained from the Foundation for Amateur

Silent Key

Raymond W. "Shorty" Geschke, K9ATL, age 77, of Racine, died Thursday, Jan. 10, 1991 at St. Mary's Medical Center, Racine.

He was a Radio Amateur for 40 years, and was a member of the Racine Megacycle Club, the Lakeshore Repeater Club, the Quarter Century Wireless Association, and the 10-10 International Club. He is survived by his wife (Lucille), four brothers, three sisters, three daughters, and two grandchildren. He was preceded in death by his parents and three brothers and two sisters. □

(Thanks Rich Regent. K9GDF)

Swapfest Airplane-Pooling

By Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Many Amateurs carpool to swapfests to save money. This year, several Amateurs *airplane-pooled* to the West Allis Radio Amateur Club Swapfest in Waukesha to save travel time.

Carl, W9NVM, who lives in Antigo, had not gone to swapfests in many years because he didn't want to go alone. One day his friends found this out, and encouraged him to join them at the next swapfest. Carl, an experienced pilot, then suggested that they all fly there together.

So, early Saturday morning, a group of Amateur Radio Operators left Antigo and flew 154 miles to the Waukesha Airport. You say, "Their arms must have been tured after all that flying?" Well, they were inside a sleek, twin-engine Beechcraft airplane. Flying about 163 miles per hour average, faster than most cars on

the freeways, they got to the Waukesha Airport in only 57 minutes. The Waukesha Expo Center Swapfest grounds is within sight and just southwest of the Airport, so they carpooled those last few blocks.

Among the passengers from Antigo were Jeff, N9JOR, and his dad, Jim, N9JOQ. During the flight, they operated two-meter simplex and easily worked Michigan, Minnesota, Illinois, and Wisconsin stations. From Summit Lake were Jim, N9JTW, and his son, Bill, KB9FTA. From Aniwa was Jason, KB9ENJ. Tomahawkians were Walt, N9CLE, Mike, KA9BHL, and his wife, Diane, KA9BHK.

The old story, "It takes one hour to fly from Antigo to Waukesha," might still be true: a half hour to fly the distance, and the other half hour to circle the airport. Carl flew IFR most of the way because of the clouds. But anyway, *airplane-pooling* to a swapfest is the fun and quick way to travel. □

Radio, which encourages these programs in order to advance the purpose of the Amateur Radio Service.

- Richard Regent, K9GDF

EDITOR'S NOTE: The West Allis Radio Amateur Club also offers scholarships every year. These are open to Wisconsin radio amateurs only. More information about how to apply for these awards is on page 8 of this issue.

When the scholarships are awarded, BSSS will publish the winners.

DO YOU KNOW A WISCONSIN AREA HAM SERVING IN DESERT SHIELD? He/she may have a free BSSS subscription, sent by first class mail, during his/her tour in the Persian Gulf area. Full details were in February BSSS. This offer is not just for Radio Amateurs from Wisconsin, but for the general area. For more info, see our February issue, call Ken Ebnetter, K9EN, at (608) 742-3560, or write to Ken at 822 Wauona Tr., Portage WI 53901.



JOHN'S JUNK BOX IS ALMOST EMPTY! John Frank, WB9TQG, author of "John's Junk Box", writes to say he has run out of junkbox parts, and thus, for the time being, he's also out of articles. He sent along the photo above to illustrate the dearth of electronic debris, but he did say that - time and junk permitting - he may ship along an article for BSSS once in a while. BSSS thanks John for sharing his knowledge and ingenuity with our readers, and thus encouraging us to build a project every now and then. □

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Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913. *Please do not send cash!*

Milwaukee Radio Amateurs Club Holds Annual "Old Timers" Party

Upwards of sixty radio amateurs and their guests gathered at the Tanner-Paul VFW Post Restaurant in West Allis on Thursday, December 27th, to honor the Milwaukee area old timer amateurs.

The dinner featured steamship round of beef, carved and served by the head chef, in grand fashion. By all indications, the food was savored by everybody.

An entertaining portion of the evening came when a remote microphone was passed from person to person for introductions and the relating of their amateur experiences. Nostalgia and humorous anecdotes really entertained the crowd, who indicated their approval as applause and laughter filled the room.

There was a drawing for door prizes, which was truly fun. Enough prizes had been donated so that everyone present received at least one prize, and some were awarded a second gift.

The old timers renewed their friendship with one another during the pre-dinner social hour and in the post-dinner sessions, which continued well into the evening as the spontaneous exchanges of stories increased.

This was amateur comradeship at its finest.

- Ed Seruga, KE9JJ

3840 South 43rd Street, Milwaukee, WI 53220



Some of the attendees at the Old Timers Party are shown in these photos by Ed Seruga, KE9JJ. From left to right are Charlie Dawson, W9CUW; George Philbert, KA9MXM; Kate Kedney, KA9MWT; and Travis Baird, W9VQD.



Above are, left to right, Art Vahovius, W9VSD; Terry Vahovius, KA9MXU, and Roman Hudzinski, W9JPS.



In front are Verne Teske, W9RYA, and Ed Smith, W9DYO. In back are Harry Peliska, NW9X, and Dick Schlatterer, KA9MTY.

ARRL Board Meeting Highlights

Continued from front page

relations campaign.

- Applauded outgoing DX Advisory Committee chairman Rick Roderick, K5UR, for his outstanding service to Amateur Radio, the League, and the DX community.

- Elected the following directors to the Executive Committee: Frank Butler, W4RH; Marshall Quiat, AG0X; Stephen Mendelsohn, WA2DHF; and Paul Grauer, W0FIR.

- Renewed its commitment to Amateur Radio education, stressing knowledge, skill, traditions, and dedication to purpose. It resolved to renew the tradition of one-to-one, "Elmer," effort.

- Requested that the ARRL Monitoring System pay particular attention to the problem of non-amateur stations in the 12 meter and 17 meter bands.

- Adopted a new band plan for the 13-cm band. The VRAC and VUAC will seek input for a new band plan for 222-225 MHz.

- Selected Huntsville, Alabama, as the site of the 1993 ARRL National Convention.

- Chose the San Francisco Bay area as the site of the 10th ARRL Amateur Radio Computer Networking Conference, scheduled for September 27-29, 1991. The hosting organization will be the Northern California Packet Association.

- Created a volunteer position for engineers to serve in an advisory capacity, similar to that of

Volunteer Counsel, to assist amateurs with such matters as antenna support structures.

- Recognized members of the Johnson Space Center ARC for their efforts in keeping SAREX manifested on NASA shuttle flights. The Goddard ARC was recognized for its shuttle-related educational efforts.

- Commended the Santa Cruz Amateur Radio Club for its contribution to the advancement of Amateur Radio, and for its 75 years of service to the amateur community and general public in and around the Santa Cruz County, California area.

- Changed the Assistant Technical Coordinator title to "Technical Specialist."

Minutes of the meeting and an accompanying story will appear in March *QST*.

- The ARRL Letter, 1/23/91

Scanner vs. Scanner

By John W. Frank, WB9TQG
P.O. Box 5003
Madison, WI 53705

Not long ago, I was called to the home of a police officer to help find out why his scanners were suffering from some odd types of interference. As I approached his home, I was listening to some of the affected frequencies on my own handheld scanner, but I wasn't hearing any interference. When I pulled up in his driveway, I still didn't hear any interference. However, as soon as I walked into his house, I could hear various scanners squawking and squealing.

Tuning a spectrum analyzer to the range of frequencies he was most interested in revealed a very unusual signal that would appear out of nowhere, zoom up over a range of about 5 MHz, and then vanish as quickly as it appeared. It soon became apparent that the appearance of this signal corresponded with the activity of one of the scanners. As soon as the scanner was turned off, the signal disappeared. I also noticed that the scanner that was generating this unwanted signal had a plastic cabinet, while the scanner that was picking up this signal had a metal cabinet. A third (handheld) scanner in the same room had a plastic cabinet and a rubber duck antenna. It did not seem to be radiating any rubbish or picking up any interference.

What seems to have been happening in this case was that one scanner would pick up the local oscillator of another scanner. For example, suppose that one scanner was tuned to 162.55 MHz. Further suppose that this scanner was a double conversion superheterodyne, and that the first intermediate

frequency was 10.7 MHz. If the local oscillator operates 10.7 MHz below the incoming signal, it could cause a scanner to hear noise on 151.85 MHz. On the other hand, if the local oscillator operates 10.7 MHz above the incoming signal, noise might be heard on 173.25 MHz when the scanner is tuned to 162.55 MHz. It is also worth pointing out that not all scanners are double conversion. Some high-tech units are triple or even quadruple conversion. Furthermore, not all scanners use an intermediate frequency of 10.7 MHz.

How do you cure this type of interference? The simplest solution is to use only one scanner at a time. Feeding each scanner from a separate antenna seems to help; connecting two scanners to one antenna through a splitter seems to make the problem worse. Using one scanner for VHF listening and the other for UHF channels is also worth a try, because the greater difference between local oscillator and signal frequencies reduces the likelihood of one scanner interfering with another.

How else can you avoid this type of problem? When shopping for a scanner, try to find one that is built in a metal cabinet. The metal provides shielding against the intrusion of unwanted signals and the radiation of the local oscillator. Also, examine the radio for a small sticker which states that the receiver meets the requirements of FCC

rules and regulations Part 15 with regard to radiation of unwanted signals. Most modern receivers don't radiate an excessive amount of RF noise on their own. However, there are a few that do.

73, and happy listening. □

John Bardeen, Transistor Co-Inventor, Dies

Continued from front page

was working with two other scientists, Walter Brittain and William P. Shockley, at the Bell Laboratories in Murray Hill, N.J., when they developed the first semi-conductor transistor in 1947.

The invention was announced in 1948, and its first commercial use was in telephone switching equipment four years later.

Invention of the transistor earned the three men a Nobel Prize in 1956, and transformed science and industry. The tiny devices on silicon chips pushed aside the large, inefficient vacuum tubes for portable radios, computers, and the miniaturized equipment required for space flight.

Bardeen once remarked, "I knew the transistor was important, but I never foresaw the revolution in electronics it would bring."

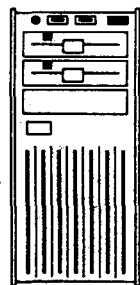
- Staff and news wire reports in the Wisconsin State Journal, 2/1/91

Editor's note: Local oscillator radiation from scanners may interfere with more than just other scanners. For example, there are scanners in Baraboo which radiate very robust signals in the 2-meter Amateur Radio band; I'm sure that the Baraboo and Sauk County area is not the only part of the state where this is happening. Among the frequencies affected are the commonly-used packet channels. The rhythmic "chuck-chuck-chuck-chuck" from at least one of them is audible in a mobile 2-meter receiver for over one block in all directions. Maybe a better name for these devices would be "Scanmitters." □

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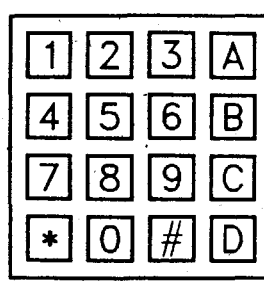
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West Allis, South Milwaukee Clubs Offer Total of 7 Awards

Foundation for Amateur Radio Scholarships

The Foundation for Amateur Radio, Inc., a non-profit organization with headquarters in Washington, D.C., plans to award thirty-six scholarships for the academic year 1991-1992 to assist Radio Amateurs. The Foundation, composed of fifty local area Amateur Radio clubs, fully funds five of these scholarships with the income from grants and its annual Hamfest.

It administers, without cost to the donors, seven (7) scholarships for the Quarter Century Wireless Association; four (4) for the South Milwaukee Amateur Radio Club; three (3) each for the Baltimore (MD) Amateur Radio Club, the Radio Club of America, and the West Allis Radio Club of Milwaukee, WI; and two (2) each for the Dade (FL) Radio Club, the Amateur Radio News Service, and the 10-10 International Net. It also administers one (1) each for the Richard G. Chichester Memorial, the Young Ladies' Radio League, the Columbia (MD) Amateur Radio Association, the Frederick (MD) Amateur Radio Club, the Vienna (VA) Wireless Society, and the Kevin B. Perdue Memorial.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. The awards range from \$500 to \$2000, with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs. Clubs are encouraged to announce these opportunities at their meetings, on their nets, during training classes, and in their club newsletters.

Additional information and an application form can be requested by letter or QSL card, postmarked prior to May 31, 1991, from:

FAR Scholarships
6903 Rhode Island Avenue
College Park, MD 20740.

The Foundation for Amateur Radio, incorporated in the District of Columbia, is an exempt organization under Section 501(c)(3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purpose of the Amateur Radio Service. □

- Foundation for
Amateur Radio news release

Eau Claire Amateur Radio Club

Carl Searing, W9NW,
Secretary
1129 McKinley Road
Eau Claire, WI 54703-2219

Minutes: 12 February 1990 Meeting

The meeting began at 7:30 p.m. with the program, followed by coffee and snacks, after which the regular meeting began.

Inspector Bill Klee, of the Eau Claire Fire Department, presented "Fire Safety in the Home," a video/talk/demonstration of the various methods of fire prevention and the use of smoke detectors and fire extinguishers. It was an excellent presentation.

The meeting proper was opened by President Bill Jablonske, W9NNS. Secretary's and treasurer's reports were read and approved.

Under old business, repositioning the antenna for the 84/24 repeater atop Sacred Heart Hospital's roof was discussed. KB9R and W9BAR will look into the situation, and report next month with recommendations.

Periodic interference to the 31/91 repeater was also mentioned. It turns out that the problem is

probably not loose connections in our feedline, but something coming from other equipment on the tower. Resolution of the problem awaits the coming of the tower crew.

Cards from N9FLK, Darold Patrow, were read. He thanked the club for its recent gift of a power supply. Thanks from the Eau Claire Ski Striders were read. They were appreciative of our communications work during the recent cross-country races. N9ISN, N9JMB, W9BUG, and W9NW participated. ISN and JMB also worked on snowmobile drag races on Lake Hallie Feb. 10th. They said that the Kiwanis Club was very pleased, and indicated that their assistance was invaluable to the event.

W9NNS led a discussion on preparation for the Hamfest. KC9NN, N9JMA to be vendor contactors. Serious planning to begin next month.

W9NNS commented on the Eau Claire Packet Node, mentioning equipment, software, updates, etc. Traffic for Desert Shield is being handled.

N9JMA said that perhaps the many new hams likely to appear locally due to the implementation of the no-code Technician class should be contacted, the idea being to solicit their joining the club. We already do this, and will continue.

Lunch Committee: N9JMA, N9GJU.

Respectfully submitted:

W9NW, Secretary

Northern Wisconsin Radio Club



- Since 1923 -

Steve Hart, KA9OMC,
Secretary
Route 1 Box 54
Knapp, WI 54749

Greetings, NWRC members and guests.

The last meeting of NWRC was held Jan. 22 at Rassbach Communications Services, Inc., Eau Claire. President Steve, KE9RW, called the group to order at 7:30 p.m. Sec./Treas. report was given by Steve, KA9OMC. Club balance at the meeting time was \$108.57.

After the meeting, a tour was conducted by Don, WD9IJY. A complete review of facilities included marketing, sales, parts stores, repair center, and vehicle support. Son Jim demonstrated test gear, including cellular phone and spectrum analyzers. Jim also discussed a 400 MHz community repeater that was in for repair. Many questions followed the tour. Questions about static results on towers and the use of lightning counters, to mention a few.

Rassbach Communications has been a family business for thirty years, supporting Motorola equipment. When asked how Motorola cellular phones compared with other makes, Don replied, "Just drop one." Don credits his success to his family, who he claims "all had to work in the business." Wife Beverly does the accounting, while son Jim helps with the whole business of support. Don also credits friends through the business and

amateurs over the years for their continued success.

Steve, KA9OMC, reminded the group of Don's support to the Menomonie 01/61 repeater. Don gave the repeater a home in 1976, and he continues to support the Red Cedar Repeater Association in many ways.

After our question and answer period, pictures were taken and a lunch was served by Rassbach's. Everyone received a troubleshooting pen-type flashlight in the door prize drawing, courtesy of Don. Our thanks to Rassbach's for a very enjoyable meeting.

The next meeting of NWRC is the annual club auction Feb. 26 at the American Legion Post, Water Street, Eau Claire. The March 26 meeting will be at the Peppermill Restaurant in the Thunderbird Mall, Menomonie. A program by N9KMZ, Thomas Johnson, Dunn County Director Emergency Government, will be given. The April 23 meeting will also be at the Peppermill, and the program will be a video sponsored by Icom, called "More Than Radios". Meeting time for both events is 7:30 p.m. This will be our last spring meeting until Field Day.

Steve Hart, KA9OMC, Secretary/Treasurer, NWRC

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Icom Sponsors New Video

"More than Radios"

Icom is proud to introduce *More than Radios*, a unique Amateur Radio video created and produced Zman Productions. This special message, sent to all Amateur Radio operators, was released on January 16, 1991, at an exclusive video premier for the cast and crew. This event will launch a national distribution to ham radio clubs and special events for 1991.

Production on this 28 minute video began in June, 1990. Zman Productions, together with local hams, explored and settled on an innovative concept for a video. They wanted to send a special message to all Amateur Radio operators in a very unique way. Through their ideas, dedication, hard work, and the help of Icom's sponsorship, *More than Radios* materialized.

More than Radios is a story about real people, with a simple statement about Amateur Radio woven into the plot. The video is set in various towns throughout Washington state. Shooting took place during the weekends to accommodate the cast and crew, which consists of 6 actors, 12 extras, and 15 crew members. One project goal was to involve as many real Amateur Radio operators in front of the camera as behind the scenes.

The creation of *More than Radios* took approximately six months from start to finish. Icom would like to recognize all the hard work of Zman Productions and crew. Zman Productions is owned and directed by Chuck Zappala, KE7SA, and Dixie Zappala, N7OYY.

Icom and Zman Productions have received many inquiries as to the story line of the video. The story line will not be revealed until after the premier showing. The reason is simple: knowing the story line could detract from the enjoyment of watching the video for the first time.

A copy of the tape can be obtained by sending a letter on your club's stationery to Zman Productions (8051 N.E. 143rd Street, Bothell, WA 98011). A limited number of tapes are available. All tapes are made from a one-inch video master tape to insure the highest quality. Icom encourages all Amateur Radio operators to enjoy the video, and then pass this special message along to your family and friends.

- Icom news release

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Radios, Computers Targets of Heightened Air Security

Heightened commercial airline security has not yet prevented amateurs from carrying radios and computers aboard domestic flights, but hams should be prepared for greater scrutiny of electronic devices. By early February, domestic carriers were under a "Level 4" security alert, but several major carriers said their policies concerning radios had not changed; they were simply being more stringently enforced.

Amateurs should always carry their FCC license with them and also should be prepared to remove batteries from radios if asked to do so, as well as

open laptop computers and be prepared to turn them on upon request.

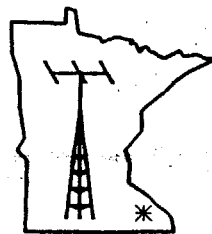
Some international carriers, British and German in particular, may have much tighter restrictions, depending on point of departure and destination. All amateurs traveling on international flights should consider the possibility they may not be allowed either to carry or to check as baggage radios and/or computers, and should check with their carrier about the possibility of making arrangements in advance.

- The ARRL Letter, 2/6/91

14th ANNUAL ROCHESTER AREA

HAMFEST

COMPUTER & ELECTRONIC SHOW
SATURDAY, APRIL 6, 1991



- ✓ AT JOHN ADAMS JUNIOR HIGH SCHOOL
- ✓ 1525 NW 31st STREET, ROCHESTER, MINNESOTA
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SPEAKERS & PROGRAMS
(Tentative List)

Getting Started in Packet - NØKLV
Antenna Surprise - KCØP
Enjoy SWLing - Randall Trapp
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ADMISSION (Advance)	\$ 3.00
At the door	\$ 4.00
RAFFLE Ticket	\$ 1.00
6 pack	\$ 5.00
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Bring 6 ft table	

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unless SASE is supplied.

Advance tickets available at Satellite City

EXAMS

Amateur Radio examinations will be given Friday, April 5. For examination information, please call (507) 280-8345.

PRIZES

Prizes will be awarded throughout the day.

INFORMATION & TICKETS

ROCHESTER AMATEUR RADIO CLUB
ATTN: JOHN SCOTT, NØHZN
2824 N.W. 24th STREET
ROCHESTER, MN 55901

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Wisconsin Nets Association

Summary of On-The-Air Meeting December 1, 1990, 1830Z

The meeting was called to order by Chairman Don Stenz, K9KSA.

Roll call:

	Secretary	
N9IAI	Bob Towns	Present
	Treasurer	
KY9P	Keith Shilhavy	Present
	Section Manager	
K9GDF	Rich Regent	Absent
	Section Emergency Coordinator	
WB9SMM	John Leekley	Absent

	Ass't Section Emergency Coordinator	
W9NGT	Sherm Carr	Present

	Badger Weather Net	
Manager:		
W9AYK	Jim Merrill	Present
Delegates:		
WB9YPY	Jim Caldwell	Present
AG9G	Dwight Simpson	Present

	Badger Emergency Net	
Manager:		
N9IAI	Bob Towns	Present
Delegates:		
KA9KLZ	Art Evans	Present
WG9J	Stacy Garner	Present

	Wisconsin Sideband Net	
Manager:		
K9UTQ	Gene Santoski	Absent
Delegates:		
K9FHI	Roy Pedersen	Present
K9ANV	Ray Sunderland	Absent

	Wisconsin Novice Net	
Manager:		
KA9FVX	Adrian Apple	Present
Delegate:		
KA9GBG		Absent

	Wisconsin Slow Speed Net	
Manager:		
N9BDL	Lee Andreas	Present
Delegates:		
N9FVN	Paul Dewitte	Present
KY9P	Keith Shilhavy	Present

	Wisconsin Intrastate Net/Early	
Manager:		
WB9ICH	Larry Guthu	Present
Delegates:		
W9CBE	Hale Blakely	Present
W9YCV	Les Peterson	Present

	Wisconsin Intrastate Net/Late	
Manager:		
W9NGP	Ed Rice	Present

Delegates:		
KA9OBP	Paul Amend	Absent
K9KSA	Don Stenz	Present

North Woods Traffic Net

Manager:		
NS9Q	Mary Berger	Present
Delegate:		
WC9O	Don Berger	Present

The minutes of the September meeting were recently mailed out, and you all have them; we will dispense with reading of the minutes. Are there any additions or corrections to the minutes? W9CBE said the WNA funds are being held in the First National Bank of Iola, WI. K9FHI said two calls are listed wrong, they are WA9YVE should be WA9YVC, and KA9GBE should be KA9GBG. WB9YPY made a motion to accept the minutes. K9FHI seconded the motion, and the motion passed.

KY9P gave the treasurer's report. The balance on hand at the beginning of his term was

\$169.37
43.50 receipts from WNA Boosters
22.40 sent to BSSS
10.00 to State of Wisconsin for incorporation fees
\$180.47 balance as of 12-1-90

KY9P said the booster list has not been sent out right, but he has straightened this out and notices are being sent to him now.

W9YCV said he can get BSSS through several organizations and only desires one copy per month. K9KSA said that membership in the WNA is by nets only; there are no individual memberships as such. However, individuals can help the WNA with the cost of mailing and the business of the WNA and participate in the picnic, is one way to bring us income. Or, become a WNA Booster and part of the WNA costs go to BSSS which is our official journal; our minutes appear in BSSS.

KY9P said the booster cost breakdown is as follows:

First time WNA Booster	\$11.00
Renewal	9.00
Booster without BSSS	3.50
BSSS subscription is	5.60

WB9YPY moved to accept the treasurer's report, WG9J seconded the motion, and the motion passed unanimously.

Chairman's Report - Don Stenz, K9KSA: I had questions about our incorporation and about WNA Boosters. They have already been answered. Nothing further.

WNA Secretary - Bob Towns, N9IAI: I apologize for not getting the minutes out when they were supposed to be. I didn't know there was a thirty day limit for the minutes.

Section Traffic Manager - Don Stenz, K9KSA: Our previous STM, Dick Hugi, KC9CJ, passed away Oct. 24, shortly after moving to Port Edwards, WI.

Section Emergency Coordinator - John Leekley, WB9SMM: Absent. No report.

Net Reports

Badger Weather Net - Jim Merrill, W9AYK, Net Manager: The west and northwest parts of the state could use more reporting stations. Green Bay also needs to be represented. WB9YPY takes weather reports 5 days a week, and W9IHW does the other two days.

Badger Emergency Net - Bob Towns, N9IAI, Net Manager: The net is going along quite good at this time. 9RN covered 90% of the time with a station from BEN. Net QTR averaging 28 minutes. W9NGT, KE9VU, and N9FVN have done an excellent job filling in when NCS are missing. WG9J has had station torn down for a while, but is back on the air and will be checking in more often. KA9KLZ, happy about propagation this year, has been quite good and only needed to go to alternate frequency a few times this year. Net certificates will be available and yearly stickers will become available shortly.

Wisconsin Side Band Net - Roy Pedersen, K9FHI, Delegate: When NCS's don't show up it causes the net to be late. Can always use more check-ins and traffic, otherwise the net is going good. W9NGT: Net appears to be going good - don't have enough outlets for all the traffic at times. Could use better representation on the net, but over all the net is doing good. Some out of state traffic coming in addressed to companies or manufacturing concerns causes problems at times. Either the address is wrong or we are pulling men out of work to deliver a message, and this could better be done at their homes.

Wisconsin Novice Net - Adrian Apple, KA9FVX, Net Manager: Check-ins vary from one to seven. NCS needed for Novice. Would be nice to have more Novices check in to the net. Now that the Novices have phone privileges on ten meters, it is hard to get them on the CW nets now. We will send our net certificates out as soon as they become available.

Wisconsin Slow Speed Net - Lee Andreas, Net Manager: We have the most unique training messages of any net in NTS, especially on Monday night, with Sir Slim of Baghdad. Stations wishing to know more should check into the net. Need an NCS for Sunday night, 6:30 p.m., 3645 KHz; anyone can apply. All my certificates are up to date. Traffic is up a bit from the summer low.

Wisconsin Intrastate Net/Early - Larry Guthu, WB9ICH, Net Manager: No answer. Les Peterson, W9YCV, Delegate: Need more liaison to 9RN; W9CBE and W9KLN doing most of it now. We do move along at about 20 WPM, but will slow down for anyone checking in at slower speeds. Hale Blakely, W9CBE, Delegate: WIN has been around since before WW II, and has been in continuous operation every day since bands were reopened after the war. The CW nets have been around a long time, and deserve to continue a long time.

Wisconsin Intrastate Net/Late - Ed Rice, W9NGP, Net Manager: We are a small net; however, it is growing steady. I compared totals for November '89 with totals for November '90. We find 100 more QTC, 200 more QNI, and QTR is 74 minutes longer than 1989. We had 417 QSP in '89 and 456 QSP in '90. Any of you that have any

traffic left at 2200 hours, bring it to WIN/Late.

North Woods Traffic Net - Mary Berger, NS9Q, Net Manager: The net is running smoothly. We are there every night of the week. NCS and Alternate NCS doing very good job. The net is well supported. We average 13 to 15 checkins per night, and traffic is handled with dispatch every night.

Other Business

There was discussion about WNA Booster fees, and whether we should raise ours. KA9KLZ said we have not had a raise as long as he can remember, and a raise from \$3.60 to \$4.00 would be appropriate. Jim Caldwell, WB9YPY, made a motion to raise booster fees to \$4.00 now. Stacy Garner, WG9J, seconded the motion. Motion carried. Don Stenz, K9KSA, said this will raise the first-time membership to \$11.50, and renewals will go to \$9.50.

Art Evans, KA9KLZ, said that with the BSSS subscription raise coming in April, instead of having a fractional increase, we should go to the next whole dollar amount. Les Peterson, W9YCV, said the wrong thing to do would be to drive members out by raising rates too high; a large treasury is a dangerous thing. It is better to operate closer to the chest so outgo equals income.

Bob Towns, N9IAI, asked does the WNA wish to donate money to the BSSS computer fund? They need a new computer, etc. The printer doesn't print very good. Les Peterson, W9YCV, said that BSSS is now using a borrowed computer system to put out the BSSS. They need one that belongs to them and is not borrowed. There was another club in the state that would match any donated funds, but they need more than they have so far. Other clubs have made substantial donations to BSSS for a new computer. Les said he has talked with Ken Ebner this week, and the fund was up to \$850.00 or \$875.00, as of 11-24-90. To buy the computer they need, it will cost about \$300 to \$600 more. The WNA may want to go with a donation of \$25.00 towards the computer.

Jim Caldwell, WB9YPY, said that with \$180.00 in the treasury at this time, we could go with \$50.00, and if Les, W9YCV, would like to raise it to \$50.00, he will second the motion. Les said he would raise it to \$50.00. Don Stenz, K9KSA: Motion made that WNA will send \$50.00 towards purchase of upgraded computer system for BSSS. Seconded and passed.

There was discussion about net certificates, renewals, who does what, and also about out-of-state membership in in-state nets. Our new STM, K9KSA, is in the process of finding out about the procedure for the above-mentioned certificates, etc.

K9KSA asked if there is any further business for the WNA meeting? Hearing nothing, he entertained a motion to adjourn. Jim Caldwell, WB9YPY, moved to adjourn, Art Evans, KA9KLZ, seconded, and the motion passed. K9KSA adjourned the meeting at 2:10 p.m. Dec. 1, 1990. □

Does your local library subscribe
to Badger State Smoke Signals?

19th
Annual

MADISON SWAPFEST & COMPUTER FAIR

Madison, Wis.

Sponsored by Madison Area Repeater Association - WB9AER - Madison, Wis.

DANE COUNTY EXPO CENTER FORUM BLDG.

Doors Open at 8 A.M. — Sun., April 7, 1991

BOOTH EXHIBITORS & FLEA MARKET SELLERS WITH 6 OR MORE TABLES AT 3 A.M.

ALL OTHER SELLERS ADMITTED AT 7 A.M.

**ELECTRONIC EQUIPMENT AND COMPONENTS
FOR HAMS, COMPUTER HOBBYISTS AND EXPERIMENTERS
COMMERCIAL DEALERS
FOR BOTH NEW AND USED EQUIPMENT**

DELICIOUS SANDWICHES — DONUTS — ROLLS — COFFEE — POP — MILK

ADMISSION PER PERSON — \$3.00 ADVANCE — — \$4.00 DOOR (Children 12 & Under Free)

TABLES — \$9.00 ADVANCE — — Reserve Early -- Sell Out Every Year.

TABLE RESERVATIONS DO NOT INCLUDE ADMISSION PRICE — YOU MUST BUY SEPARATE ADMISSION TICKET

WE URGE YOU TO CARPOOL AS THE COUNTY CHARGES A PARKING FEE!!!

For Information on Exhibitor Booths, Contact MARA, Box 8890, Madison, WI 53708-8890

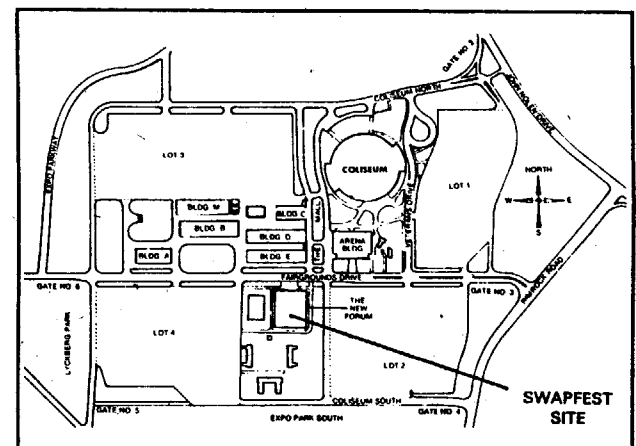
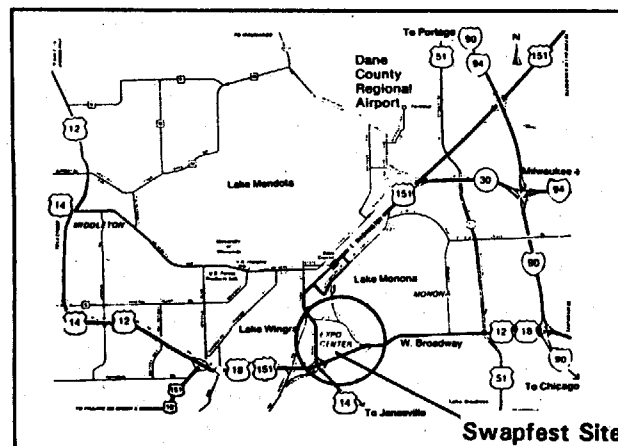
Or Call (608) 249-7579 Answer Machine

The Madison Swapfest is easy to find. It is next door to the Dane County Coliseum, about 4 miles west of the Highway 12/18 and I-90 Interchange. Watch for the John Nolen Drive Exit. Just follow the "Coliseum" signs to the Dane County Expo

Center, located 1/2 mile north of Highways 12/18 (the Beltline) at the "MC" Exit on Madison's south side.

Talkin will be on the 147.75/147.15 MARA Repeater.

Madison Swapfest Location Maps



ADVANCE RESERVATION COUPON

NAME _____ CALL _____

ADDRESS _____ CITY _____ STATE _____ ZIP _____

PHONE () _____

PLEASE SEND _____ TICKETS AT \$3.00 Per Person

PLEASE RESERVE _____ TABLES AT \$9.00 Each - Table Fee Does Not Include Admission Fee.

TOTAL AMOUNT ENCLOSED \$ _____

If there are no more tables available do you still wish to purchase tickets? YES() NO()

A.C. Outlets available to Booth Exhibitors ONLY.

Please Send S.A.S.E. Make Checks Payable to MARA - Mail to MARA, Box 8890, Madison, WI 53708-8890.

Tickets and Table Reservations Confirmed by Return Mail.

RESERVATIONS NOT ACCEPTED AFTER MARCH 31, 1991.

Sending "Sandgrams" by Packet Radio to Service Personnel in the Persian Gulf

(Editor's Note: The following information is from a packet radio informational bulletin. It was received at the W9NNS BBS in Chippewa Falls, WI, and was forwarded to BSSS by Bill Jablonske, W9NNS.)

You are welcome to solicit and generate messages to U.S. Military personnel in any branch of Service. These messages may be from you, friends, neighbors, business associates (non-business traffic only!) - ANYONE! The messages are refiled into Military Affiliate Radio System (MARS) circuits. This article tells you how to prepare and send the messages on packet radio, in MARS format. Here's how to go about it.

APOs and FPOs

Traffic going to Saudi Arabia for U.S. military personnel is divided into two unique classes. Do not group APO (Air Post Office) and FPO (Fleet Post Office) messages in the same "book." (A "book" message is one going to more than one addressee, but with identical texts.) Each class is routed in a slightly different way: (1) Messages to military personnel having an APO (Air Force and Army), and (2) Messages to military personnel having an FPO (Navy and Marines).

Priority Messages

Any messages that are considered, due to the emergency nature of their content, to be "priority" must be clearly marked as such in the "subject" area of the message. Do NOT include these in "books" of

messages. All messages MUST be in the MARS format which will be described in this article. "Books" of messages must not contain more than four messages.

Messages Going to APOs

Use the ST command, and send this:

ST NTSKSA @ KSA

On the "subject" line, enter:

x DESERT STORM

("x" is the precedence of the message. Use P for Priority, or R for Routine.)

Route these messages to the WA0CQG BBS (WA0CQG.MN.USA.NA).

Messages Going to FPOs

Use the ST command, and send this:

ST.WL7AIT

On the "subject" line, enter:

x DESERT STORM - FPO

("x" is the precedence of the message. Use P for Priority, or R for Routine.)

These messages can be left on any of the MN

BBSs, and they will be forwarded to WL7AIT.

Message Format

To send traffic from the Amateur Radio service via a "SAND-GRAM", please follow the following steps and format. If you don't, the message may become delayed or non-deliverable. NOTE: There are NO blank lines until after the last BT, and all messages must be in upper case.

Use the following message format:

DE AAV5TO NR xxx

(Include this line only for APO messages; xxx is any unique 3 digit message number you choose.)

R 171455Z JAN 91

(R=Routine, P=Priority; 17 is day of month, 1455 is Zulu time (UTC), JAN is month, 91 is the year. This is the date-time group.)

FM JANE DOE / AAV5TO MN / WD0GNK

(Message is from Jane Doe; If message is for an APO, use MARS call sign AAV5TO and MN, followed by your Amateur call sign. If for an FPO, use only ham call.)

TO BEMY SWEETHEART
473-00-0000
B CO 1MS 2ND AD
APO NY 09371

Sample APO Message

DE AAV5TO NR 398
R 290115Z JAN 91
FM LOWELL MONTGOMERY / AAV5TO MN / KB0FFO
TO 1ST LT ZIGGY STRIP
432-75-1602
HSC 844TH ENGINEER BN
APO NY 09657
GR 25
BT
UNCLAS
MISS YOU A LOT THERE
WILL BE BIG PARTY WHEN
YOU COME HOME BOWSER MISSES
YOU TOO KEEP YOUR HEAD
DOWN AND SPIRITS UP SGD LOWELL
BT

NNNN

EOF

Sample FPO Message

R 290115Z JAN 91
FM LOWELL MONTGOMERY / KB0FFO
TO 1ST LT ZIGGY STRIP
432-75-1602
HSC 844TH ENGINEER BN
FPO MIAMI 03447
GR 25
BT
UNCLAS
THINKING OF YOU HOPE YOU
ARE WELL THE DACHSUND IS
PREGNANT WHEN PUPS ARE BORN
WILL SAY HOT DOG YOUR LETTER
RECEIVED OK LOVE YOU SGD JIMBO
BT

NNNN

EOF

(First line is name of person message is going to; 2nd line is service number of person message is going to; 3rd line is the military unit identification; and 4th line is the APO or FPO - it must be included!)

GR 24

(Number of words in message including signature. The count must NOT exceed 30 words, and number groups count as words.)

BT (Break)
UNCLAS (Indicates message is unclassified)

HI HONEY I AM NOW
I HOPE TO GET A
LOT OF LETTERS SOON I
MISS YOU NIGHT AND DAY
ALL MY LOVE SGD JANE

To make it easier to count the words in the message, put five words per line if possible; do NOT use punctuation. SGD is an abbreviation for "signed," and does not count in group.

BT (Break)

Allow 2 empty lines between the last BT and the NNNNs.

NNNN

Allow 4 upper-case Ns after text.

EOF

If this is your only or last message in a book, end message with EOF; use CTRL-Z or /EX to indicate to your local BBS that the message is done.

□

Packet Operators Could Face FCC Fines

An amateur packet message addressed to "ALL@USA" has resulted in three packet operators receiving notices of apparent liability from the Federal Communications Commission, and in notices of apparent violation for several more.

J.J. Freeman, engineer in charge at the FCC's Norfolk Office of the Field Operations Bureau, on January 25 sent the notices of apparent violation to some ten BBS operators. "I have received a report," Freeman wrote, "that indicates you may have operated your amateur radio station in violation of Section 97.113(1) of the Commission's Rules.

"It appears (Freeman says) that you used the Amateur Radio Service to facilitate the business activity of The Coalition to Stop U.S. Intervention in the Middle East."

Shortly thereafter, according to Freeman, \$300 notices of apparent liability were sent to WA3QNS, the first bulletin board on which the message allegedly appeared, and to KJ4LQ, operator of the BBS from which the FCC allegedly obtained the message.

The offending message, originated by WA3QNS and relayed by a number of BBSs in early January, asked recipients to phone a "900" number to "tell Bush 'NO WAR.'" The message gave an address in New York City for the Coalition, as well as a regular phone number and a FAX number.

"A record of each call, by area code and region, will be taken with the petitions to Washington," the message said.

The packet message "was defective on two counts," the American Radio Relay League's Executive Vice President Dave Sumner writes in March *QST*. By promoting a "900" number, the message facilitates business activities; and having nothing to do with Amateur Radio, the message fails to qualify

as an information bulletin - thus making it "broadcasting," Sumner said in an editorial.

BBS operator Tom Clark, W3IWI, was one of those to receive the Freeman letter. "The implications of the action are absolutely appalling," Clark says. "What is implied is that each and every station in a store-and-forward network is responsible for the actual message *content* passing through each node. The BBSs were cited because their calls were in the message header 'audit trail.'

"The FCC's action," says Clark, "states that each BBS SYSOP is personally responsible for the 'correctness' of all messages merely passing through his system."

In his *QST* editorial, Sumner notes the ongoing refinement of guidelines for automatic control of packet radio, and the FCC's apparent "backing away" from an understanding in effect since 1986.

The editorial is firm in its support for "downstream" packet operators; the League's belief is that the Commission does not intend that individual BBS operators "put their licenses on the line for something over which the Commission has acknowledged they have no control."

The editorial does, however, suggest that the packet community "take heed and pay more attention to the appropriateness of 'broadcast' packet traffic."

FCC engineer Freeman's notice of apparent violation orders a written reply, within ten days, to "fully explain the circumstances of this violation," and to "specifically describe the action taken to correct and to prevent future recurrence of this violation."

Copies of the notices of apparent liability were not available at (ARRL Letter) presstime.

- The ARRL Letter, 2/6/91

Merriment at the MARA Christmas Party



Some of the 60-plus attendees at the Madison Area Repeater Association's Christmas Party, held in December at Madison's Heritage House Restaurant, were cunningly captured on film by the capable camera of Jim Waldorf, KB9AQQ, MARA's president. In the photo at left are, left to right, K9EN's mother Iona; Iona's friend Virginia (partially hidden behind Iona); Ken's niece



Carol; Ken's father, Ernie; and Ken Ebner, K9EN, who is BSSS' chairman and circulation department. In the photo at right are MARA stalwarts Mary (WB9YON) and Joe (K9OMF) Androfski. You'll probably find the Androfskis helping to operate the talkin station at the Madison Swapfest on April 7 on the 147.75/147.15 MARA repeater.

□

Congressman Seeks Support for Amateur Radio Bill

Congressman Jim Cooper (D-Tenn.) has asked fellow representatives to support Amateur Radio bill H.R. 73 (page 14, February 1991 BSSS), and plans to speak on the bill's behalf on the floor of Congress.

Here is the letter Cooper sent to his fellow House members on January 31:

Dear Colleague:

Imagine the screaming and yelling you would hear if the Federal Communications Commission (FCC) proposed to take away one of your local television station's frequencies! But the FCC has done just that to amateur "ham" radio enthusiasts in recent years - and the "hams" are boiling mad!

Over the holiday break, a number of the "ham" radio operators in my district asked me for help with the FCC. They asked me to sponsor a bill to make sure they will not lose any more frequencies - they contend that they've already lost over 100 MHz, the equivalent of over 16 TV channels! So on January 3, 1991, I introduced H.R. 73, a bill to do just that. I'd like to ask for your support.

The "Amateur Radio Spectrum Protection Act of 1991," H.R. 73, would ensure that "ham" operators can continue to use all of the spectrum they now use. If the FCC proposes to use ham radio channels for some other use, the bill would require that ham operations be transferred to equivalent replacement frequencies.

Amateur radio operators are NOT the richest, most powerful Washington lobby - but I bet you'll hear from them. There are over 490,000 ham operators across America who go to work every day in factories, schools, and hospitals, and in their free time they enjoy a ham radio hobby. Yet when tornadoes, hurricanes, and earthquakes knock out telephone service, these "hams" turn into a volunteer network that provides helpful communication services to the public. You may have heard about some of their efforts in providing communications

links for forest fire fighters in remote areas.

I've come to believe that amateur radio operators are a valuable national resource, and I plan to do what I can to help them keep their frequencies. I need your help. Please consider joining me as a cosponsor by calling Dirk Forrister of my staff.

Sincerely,

/s/ JIM COOPER
Member of Congress

In his "floor" statement to the House, Cooper may note the FCC Authorization Act (passed Nov. 3, 1988), which, in Section 10, provides for "[strong encouragement] and supports the amateur radio service and its emergency communication efforts."

Cooper is also expected to mention the 100 MHz of frequency loss since 1982.

The 100 MHz figure was arrived at as follows:

- Loss of 2310-2390 MHz, withdrawn from the Amateur Service to protect aeronautical flight test telemetry from interference (80 MHz);
- Loss of 1215-1240 MHz, withdrawn after WARC-79 to protect NAVSTAR/GPS from interference (25 MHz);
- And loss of 220-222 MHz (to land mobile, 2 MHz).

"Passing H.R. 73," writes ARRL Washington Area Coordinator Perry Williams, W1UED, in March *QST*, "is clearly a top priority for League members" (and for ALL U.S. Radio Amateurs - BSSS Ed.).

"Unless Congress hears from a lot of Amateurs, H.R. 73 could die," Williams said.

The text of Rep. Cooper's presentation is on page 18 of this issue.

Editorial

Help Pass the Amateur Radio Spectrum Protection Bill!

As you read in the story above, a bill to prevent further loss of Amateur Radio frequencies (H.R. 73) has been introduced in the U.S. House of Representatives. The bill, authored by Rep. Jim Cooper (D-Tenn), would prohibit the Federal Communications Commission from taking spectrum from the Amateur Radio Service, unless compensatory frequency space is given to the amateurs.

While preparing that story for this issue, I thought about the irony of the situation: in order for Amateur Radio to be protected and kept viable, we need legislation to protect us from our own regulatory agency!

In looking at the FCC's actions in removing 220-222 MHz from the Amateur Radio Service and reassigning it to land mobile, it is clear that we do indeed need the protection which would be provided by Rep. Cooper's bill. The entire reassignment proceeding by the FCC, involving 40% of an important amateur band, was filled with blatant procedural irregularities. One result of that reallocation is - at the very least - the partial crippling of the packet radio high-speed data network; many "backbone" links are in the 220-222 MHz range. (As this is written, the FCC has not yet set the date on which radio amateurs are to be booted out of the 220-222 MHz portion of the 1 1/4 meter band.) An efficient

packet network radio is crucial to radio amateurs' ability to move large volumes of message traffic in disaster and emergency situations.

H.R. 73 will have a chance to be passed, but we will have to be effective communicators with our congressmen in order to make that happen. I believe the bill will face some very stiff opposition, not only from other services, but - and especially - from the FCC itself. Certainly the FCC will strongly oppose the bill, because it will curtail FCC's regulatory power. Other services will oppose it, because it may set a precedent. And, when the ruckus over the FCC's then-proposed reallocation of 220-222 MHz was at its peak, *Westlink Report* commented that FCC staffers were livid over the attention and pressure they received from, among others, members of Congress. *Westlink Report* said it appeared that the FCC failed to anticipate that radio amateurs would so effectively call their legislators' attention to the issue.

Among Congressional responses to the complaints from radio amateurs was a Congressional hearing on the 220-222 MHz reallocation matter, and a "Sense of the Congress" resolution asking the FCC to take no future actions which would further hinder the ability of radio amateurs to perform their voluntary emergency and disaster communications work. (The Sense of the Congress resolution is non-binding on the FCC. Rep. Cooper's bill, on the other hand, would legally require the FCC to honor the provisions of the bill; its provisions would, upon Congressional passage, be mandatory.)

We have to communicate with our Congressmen again, and we have to do it even more effectively than we did before! If you have never communicated your support for a bill to your Congressman, there

couldn't be a better time than right now. If this bill is to pass, Congress must be made clearly aware of our support. Keep feelings out of your letter; be objective, and provide reasons why such a law is needed. Please do not delay; write now. Your letter may be sent to your representative, U.S. House of Representatives, Washington, D.C. 20515. - K9ZZ

Editor's Notes

• **WELCOME** to the Central Wisconsin Radio Amateurs at UW-SP! Starting with this issue, they join the many other clubs represented in *Badger State Smoke Signals* each month. We are happy to have them with us, and we hope that the relationship continues a long, long time.

• **IS YOUR CLUB A SECRET?** Don't keep your club "hidden"! If your club isn't doing so, you should be sending news releases on a regular basis to all media outlets in your area, even if they're just meeting notices. Doing this (1) keeps the public informed about both your club and about Amateur Radio, and (2) will help your club to grow by bringing students to your club's Novice and upgrade classes. Include all the basics: Who, What, Why, When, Where and, when needed, How (as in a Field Day news release). Make your story "for immediate release." Give a contact name and telephone number, and *always* include "The public is welcome." □



WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

P. O. Box 847 • Plover, WI 54467

Minutes of Feb. 13, 1991 Meeting

The meeting was called to order by President KA9LAQ (Mike Pagel) at 7:30 PM. Members attending included:

W9BCC	Frank L. Guth
N9JQU	Dave Olson
N9JW	Joe Larson
KE9MA	Gene Kroll
N9EIL	Debra Kroll
KA9ACE	Jim Benak
KB9DUR	Adriana Dix
KE9IA	Gordon Miller
KA9TTU	Joe Mangal
KB9FVV	Russ Fritz
N9KNE	John Kinney
N9JQR	Frank B. Podach
N9BCA	Art Wysocki
K9DB	Paul Nelles
KB9FVU	Mike Oswald
N9CGV	Joe Omernik
KF9BG	Ray Dix
WD9JID	Mike Eiden
KA9LAQ	Mike Pagel

Secretary/Treasurer KF9BG (Ray Dix - formerly KB9CRV) presented the "PIG PICTURE" in the form of a Treasurer's report. [NOTE: "Pig picture" comes from a slight typing error committed by the Editor in the previous minutes where, in referring to Ray's "Big picture" report, the letter P was somehow substituted for the letter B. Some folks don't miss or forgive these slight oversights!]

The minutes from the previous meeting were approved with a minimum of additional references to the Editor's typing skills.

N9JW (Joe Larson) presented Continuing Education Unit certificates to graduates of his recent Novice/Technician Course including KB9FVV (Russel Fritz), KB9FVU (Mike Oswald), JoAnn Dix and Eric Johnson. Joe also announced a surplus of ARRL instructional materials and made them available to members for purchase.

KA9LAQ issued Club Service Awards to N9JW, KA9TTU (Joe Mangal) and N9CGV (Joe Omernik).

KA9ACE (Jim Benak) announced the upcoming Point Bock 5K and 10K Run, scheduled for Sunday, February 17. Jim asked for and got volunteers to assist with communications in support of this community event.

N9BCA (Art Wysocki), our SWAPFEST Chair, announced plans to drop the admission to our June 16th (Father's Day) event from \$3 to \$2. Art asked

for advice in selection of general raffle prizes, and the resulting lack of decisive advice prompted Art to trust his own judgement in the future.

KA9LAQ reminded the membership of the importance of HR-73, the US House of Representatives legislation aimed at protecting radio spectrum for Amateur operators. All members were encouraged to contact their elected officials in the house and senate to make their concern known and to support the bill.

KA9LAQ asked for and received approval to take the steps necessary to secure membership in WAPR for the club. KD9NV (Dave Melton) and/or NE9U (Scott Jasper) will be asked to represent our club's interests at WAPR meetings.

KA9LAQ introduced the suggestion that the club volunteer to repair vandalized radio direction-finding antennas for the University's College of Natural Resources. The damaged antenna was mounted atop the rappelling tower on the north end of the campus and used to monitor the movements of radio-collared animals in the Schmeckle Reserve. Since replacing the phased pair of 5 element yagis would cost the CNR well over \$200 (scientific catalogs are fun to look at, but ordering is another matter!), the students and faculty in the affected disciplines would be extremely grateful for our services. We, in turn would enjoy hands-on training for newcomers and a refresher course for the veterans in topics such as matching systems, yagi design and construction, gain vs front-to-back considerations, etc. This suggestion received enthusiastic approval.

K9DB (Paul Nelles) brought the group up to date on plans for the Special Olympics Summer Games in Stevens Point. Without question, this is our biggest single public service event of the year, with Hams coming from many surrounding communities to support communications at this major event. Paul announced that this year's Games will be held on a Friday, Saturday and Sunday, June 28-30. In 1992, the Games will return to their traditional date on the first weekend in June.

The 1991 Games will come between the weekend of the CWRA SWAPFEST (June 16) and Field Day (June 22-23). As always, many hands and HT's will be needed!

KA9LAQ announced that programs for the March and April meetings will consist of presentations by:

1) KE9IA (Gordon Miller), who recently spent 3 weeks in the People's Republic of China. Gordon's observations and insights should provide an interesting perspective for those who find DX to consist of

more than pieces of paper on the wall. [Gordon has told me that virtually every expectation he had prior to the trip was sharply contrasted by his first-hand experience]. Bring a friend!

2) Eric Anderson, a Wildlife faculty member and researcher from UWSP's College of Natural Resources, will explain state of the art technologies and techniques employed in modern radio direction finding. Dr. Anderson uses RDF to track movements of collared animals in the wild. If you would like to improve upon your performance in previous CWRA Fox Hunts, here is your chance to pick up some tips from an expert!

Following a 10 minute recess to permit visits to the sandbox and soda machines, the meeting resumed to confront the final agenda item.

The membership had, in the recent past, discussed the possibility of replacing the club's monthly newsletter, WATTS SNOO, with subscriptions to the Badger State Smoke Signals (BSSS) for each member.

W9BCC (Frank Guth) had tirelessly and unselfishly published the bulletin for 25 years. Since no one with a sane mind volunteers to publish a club newsletter, the issue of BSSS subscriptions surfaced when Frank retired from the post.

KA9LAQ, however, had a crazy notion of sending copies of WATTS SNOO to EVERY Ham in Portage County as well as active Hams in nearby Wisconsin Rapids, Wausau and Marshfield (CWRA member or not) by using the University bulk mail permit. This effort was perceived as a public service and, owing to low bulk mail costs, the impact on the club treasury was identical to the cost of mailing bulletins to members only via routine first class rates (bulk mail requires 200 pieces). Over 220 copies were sent out monthly for 25 months until the Post Office suddenly refused our mailing. A second effort was also rejected. The change forced upon us by the Post Office renewed the discussion. So much for providing a public service!

The bulletin has been a connecting point throughout the existence of the club, and several members expressed their concern that our unique character and identity might be lost in the pages of the BSSS.

With two dissenting votes, the club decided to try the BSSS for a year. It was also understood that, since billing occurs on a quarterly basis, there would be opportunities to withdraw from the BSSS and reactivate WATTS SNOO if the membership felt the need to do so.

The meeting adjourned at 8:35 PM.

Our next few meetings fall on March 13th, April 10th and May 8th. All are at 7:30 PM in room #A-107 of the UWSP Science Building. Parking in University lots (except at meters) is free to the public after 7 PM. Talk-in on 146.985 (W9NN/R) or 146.670 (WB9QFW/R). All are welcome! □

- Submitted by Mike Pagel, KA9LAQ
President
1202 Elm Court
Stevens Point, WI 54481

Yellow Thunder Amateur Radio Club

K9ODK
WB9FDZ



Duane Grotophorst, KA9HKL,
Secretary
E5767 South Line Road
Loganville, WI 53943

The YTARC meets in the Baraboo Civic Center, 2nd and Ash Streets, at 7:30 p.m.

Upcoming meeting dates are:

Thursday, March 14

Room 24

Tuesday, April 16

Room 14

Minutes of the February 1991 YTARC Meeting

The meeting was called to order at 7:46 p.m. by Vice President Steve Schwoegler, WB9RNL. The following members and guests were present:

Duane Grotophorst, KA9HKL	Loganville
Steve Schwoegler, WB9RNL	Wis. Dells
Dennis Sweeney	Portage
Dennis Sweeney II	Portage
Darlene Bennett	North Freedom
Glenn Bennett	North Freedom

Steven Steele, KB9ESO
Joey Sweeney, KB9ERR
Jim Decker, WB9UQT
Harry Westlund, K9EHJ
Harry Mayland, K9FFT

Portage
Portage
Baraboo
Baraboo
Baraboo

Minutes of the January meeting were approved as published in the BSSS.

The treasurer's report was approved.

Discussion turned to the upcoming Novice-Technician classes. The classes are tentatively planned to run from April 2 through May 9, with an introductory meeting tentatively set for March 26, possibly in Portage. The exact date, time, and location of the class should be determined by the first week of March; watch for publicity.

I gave an update of the status and the procedures of the new codeless Technician license.

Steve, WB9RNL, brought up the subject of the upcoming Wisconsin QSO Party on March 10. We encourage all YTARC members to participate, and to list their YTARC affiliation when submitting their logs to the sponsor of the party.

Jim, WB9UQT, updated us on the membership renewals. Please send Jim your dues if you haven't already done so.

Buck Nite winner was Steve, WB9RNL, who was present.

Duane Grotophorst, Secretary

Correspondence

Common Hobby - Common Roots

Dear Jim:

I just had to write you a note after seeing your picture in *Badger State Smoke Signals* (page 5, January 1991 issue), since my own history and station seems to closely parallel yours - I guess all of us who started into ham radio about that time probably used much the same equipment.

I don't believe any pictures exist of me or my station of that time, but I was first licensed as K9GCC in 1956, and my first transmitter was a DX-20. However, I did very little Novice work, and instead got my Technician license, and then hid out from it on the Air Force MARS frequency of 4450 kc. That required 'phone capability, so a friend and mentor figured out how to attach a World Radio Labs screen modulator to the back of the DX-20, and I was on the air on phone.

My first receiver was the BC-455 or, as we called it, the ARC-5, and I still have it.

The transmitter developed a breakdown in the insulation in the power supply transformer; that resulted in audible arcing in use, and I couldn't find a replacement transformer. So, I donated the transmitter, screen modulator and all, to a dealer in South Dakota, with the thought that maybe he had his hands on better supplies than I did, so might be able to replace the transformer or in some other manner help some beginner along.

Last summer, I believe either at a hamfest in Milwaukee or the Chicago suburbs, I found another DX-20, and added it to my collection. I tried it out briefly, and it doesn't work, but it shouldn't be too much trouble to put it back into working order sometime. Also, last summer I acquired a National SW-54 like the one pictured in your station, the first SW-54 I've ever had.

Of course, all of this is just for my personal museum. Many collectors have much earlier stuff, but I guess we're all enamored of the equipment that was current when we got started. My dream at that time was to have an SP-600, which I've come close to buying, but don't have one yet and probably never will. I have the Super Pro 400, or actually the military BC-1004, and I guess that's as close as I'm going to get.

Your *Badger State Smoke Signals* is a really fine publication. My friend, Dean Summers, KQ0C, sent me a copy last year sometime, I guess it was, and then I advertised in it for a Normende portable radio. I also advertised in the *Milwaukee Journal*, and got a few replies from the Journal - two, I guess. I never did get the radio I wanted, though. If you run across any Normende radios, you might let me know!

Thanks,

Harry Church, W0KXP/9
Lebanon, Illinois

YTARC Goes Off to the RACES

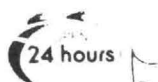


Some time in the 1970s, a program about the Radio Amateur Civil Emergency Service was presented to the Yellow Thunder Amateur Radio Club at a meeting in the Baraboo Civic Center. Above, left to right, are Russ Fleming, WB9NYG/WC9AAG, Madison; Russ Bergman, W9-JLR, Madison (both part of RACES at the state level); Sauk County Emergency Government Director Garvin Kowalke (now retired); and then-YTARC President Larry Shields, WD9ESU. Larry operates packet radio Bulletin Board Station (BBS) WD9ESU near Lodi.

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"Where's My Club's News?"

At our printing deadline, news from two clubs had not arrived: the Racine Megacycle Club and the Taylor County Area Amateur Radio Club.

BSSS' Printer has New Rules and Procedures

The plant which prints this newspaper has new rules to follow. In the past, we could delay printing a day or two to accommodate late news. We can't do that now; the printer requires ONE WEEK notice from us before printing BSSS. That means if we postpone a day, we postpone a full week, which we can't do. We must have information for publication ON TIME, or we have to leave it out. *The cooperation and help of the participating clubs in getting material to us on a timely basis would be greatly appreciated.*

- Editor

League Streamlines Volunteer Exam Program

Just in time to welcome newcomers to Amateur Radio via the code-free Technician license, the American Radio Relay League (ARRL) has announced major improvements in its Volunteer Examiner (VE) program. The changes, most of which take effect immediately, will make examinations more convenient for potential amateurs and present hams who want to upgrade.

The new ARRL program offers greater flexibility and support for Volunteer Examiners who participate through the ARRL Volunteer Examiner Coordinator (ARRL/VEC).

To make it possible for VEs to schedule examination sessions more frequently and to provide more publicity in their local areas, the League will now permit its VE teams to retain up to \$4.00 of the \$5.25 exam fee to offset expenses incurred locally. The services the League has traditionally provided to its VE teams free of charge will continue to be available on that basis.

VEs may now telephone the ARRL VEC via a toll-free number: 1-800-9-ARRL-VEC (1-800-927-7583). The toll-free service is available in all 50 states, Puerto Rico, and the Virgin Islands. The service can even be accessed from some foreign countries; VE teams overseas should contact the ARRL/VEC for information on how to access the number from their locations.

VEs who have been active in other VEC programs and whose accreditation in another program is current are now able to apply for "instant ac-

creditation" as ARRL Volunteer Examiners.

By April 1, VE teams who prefer to use their own computers to generate exams will be able to do so. Teams that prefer a multiple-choice format for Morse code exams will be able to use that format, at their option.

"As a result of the code-free Technician license, the demands on Amateur Radio Volunteer Examiners will be very heavy in coming months," says ARRL Executive Vice President David Sumner, K1ZZ. "We want to give our VEs the best support we can during this critical period. We also want to make sure that anyone seeking an opportunity to take an exam won't have far to look."

- The ARRL Letter, 2/21/91

Just a Block Away

Jerry, WA9SFH, and Richard, KA9MTY, live about a block apart from each other in Brown Deer. When they're on 10-meter SSB they can hear each other, but no one else can hear them. This allows them to exchange a few personal remarks between the two of them with each other on the 10-10 net frequency. Don't worry; they still ID properly, just in case someone else is listening a block away.

- Richard Regent, K9GDF

Packet Activity on MIR to be Permanent

By Vern Riportella, WA2LQQ

Packet radio activity has been a part of Amateur Radio space communications for almost a decade. More recently, packet radio was on the U.S. space shuttle STS-35 mission. Now comes word that packet radio is a permanent part of the Soviet manned space station MIR, call sign U2MIR.

According to the Soviet coordinator, Boris Stepanov, UW3AX, the new packet equipment was launched to Mir on a Progress M6 resupply "space truck" on January 14th. It is thought the docking with Mir took place two days later. Initial reports of packet activity from Mir were made on Sunday, January 20th, according to Courtney Duncan, N5BF.

UW3AX says the packet equipment now on MIR consists of a PacComm Handi-Packet unit and Icom IC-228A 2-meter FM transceiver, together with a laptop computer. Veteran cosmonaut Musa Maranov, UV3AM, familiarized himself with the equipment at the cosmonaut training facility at Star City (near Moscow) prior to his launch into orbit late last year.

Although the IC-228A can run as much as 25 watts of output power, UW3AX suggests Musa will probably keep the power levels below maximum. Icom American Marketing Manager Evelyn Garrison, WS7A, met UW3AX at Seattle at the Goodwill Games last summer, and endorsed the Mir packet donation.

The PacComm Handi-Packet TNC on Mir has a built-in personal message system that has been using the address U2MIR-1. According to PacComm President Gwyn Reedy, W1BEL, the software on the flight unit was available off the shelf. Some new software with features tailored for the space environment may, however, be sent to Mir soon. Meanwhile, some configuration changes to the existing unit, such as allowing for up to 10 simultaneous connects, will be made by U2MIR command shortly. Other changes to increase QSO/QSL-ability will also be phased in, says Gwyn.

Some confusion arose when the current packet equipment was put into action by Musa on January 20th. Recent reports of an Austrian packet experiment, AREMIR, said that unit would not be launched in the near future. So some were taken by surprise when packet activity began anyway. Few knew about this "other" packet undertaking in the works. The current Mir packet activity had been quietly arranged over the prior several months. Its commencement had been unheralded.

The downlink frequency is 145.55 MHz. Some consideration is being given to using split frequency operation to improve operation and reduce QRM.

- Westlink Report, February 15, 1991

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H.R. 73 Seeks 'Bright Future' for Radio Amateurs

Reproduced below is the full text of Congressman Jim Cooper's presentation to the U.S. House of Representatives concerning H.R. 73, the Amateur Radio Spectrum Protection Act of 1991, as it appeared in the *Congressional Record* on February 7.

As of February 19, 11 members of the U.S. House of Representatives had

agreed to cosponsor H.R. 73. They are: Reps. Charles Wilson (D-TX); Jim Chapman (D-TX); Pete Stark (D-CA); Gerald Kleczka (D-WI); Norman Dicks (D-WA); Frank Horton (R-NY); Bart Gordon (D-TN); George Hockbrueckner (D-NY); H. Martin Lancaster (D-NC); John Paul Hammerschmidt (R-AR); and Kweisi Mfume (D-MD).

INTRODUCTION OF THE AMATEUR RADIO SPECTRUM ACT OF 1991

HON. JIM COOPER

OF TENNESSEE

IN THE HOUSE OF REPRESENTATIVES

Wednesday, February 6, 1991

Mr. COOPER. Mr. Speaker, as this Congress convened I introduced legislation, H.R. 73, to protect ham radio spectrum. Since so many of my colleagues have expressed interest in gaining a better understanding of the issues that led to the development of this bill, I would like to offer some background information.

When Congress passed the FCC Authorization Act (Public Law 100-594) on November 3, 1988, it included in section 10 a provision which "strongly encourages and supports the amateur radio service and its emergency communication efforts".

It further required that government agencies shall take into account the valuable contributions made by amateur radio operators when considering actions affecting the amateur radio service.

I strongly supported this provision. However, threats continue to surface that would reduce the amount of spectrum available for amateur radio operators to carry out their operations—services like public safety and emergency assistance. For this reason, on January 3, 1991 I introduced H.R. 73, the Amateur Radio Spectrum Protection Act of 1991, a bill to prevent any further loss of radio spectrum by the amateur radio community.

Mr. Speaker, I sponsored this bill on behalf of some of the ham radio operators in my district. They personally asked for my help in advancing this cause. In Tennessee, we have over 9,330 amateur radio licensees, and they are part of nearly half-million amateur radio licensees throughout the United States.

H.R. 73 is simple and direct. It would ensure that ham operators can continue to use all of the spectrum they now use. If the FCC proposes to use amateur radio channels for some other use, the bill would require that amateur operations be transferred to equivalent replacement frequencies. By equivalent, I intend to ensure that the replacement bands be equal in both size and characteristics. The bill is designed to protect the existing spec-

trum allocations to all amateur radio services—including the amateur service, the amateur-satellite service and the radio amateur civil emergency service.

This bill addresses a real and growing problem for amateur operators. They calculate that over 100 megahertz of their spectrum has been reallocated since 1982. So I am with them when they say, "Enough is enough. This has to stop."

There are thousands of amateurs in every congressional district working hard for the public good. In the public eye, the best-known benefit of amateur radio is its ability to provide life-saving emergency communications when normal lines of communication break down. In hurricanes, earthquakes, tornadoes, airplane crashes, missing person cases, and other accidents and disasters, amateur radio is often the first contact with the outside world available to an affected area. And amateurs frequently furnish front-line communications during wildfires.

Red Cross and civil preparedness agencies often rely heavily on the services of volunteer radio amateurs. In my own district, both the Bedford County Emergency Management Agency and the City of Tullahoma Office of Emergency Management support this legislation due to their profound appreciation for what they call the invaluable service of local ham operators. They have told me, for example, about the assistance ham operators gave the public recently when a dense fog caused a huge traffic pileup on Tennessee Interstate 75.

I hope none of my colleagues overlook the fact that amateur radio is noncommercial in nature—which means they are sometimes an easy target for Federal bureaucrats who are pressured to provide spectrum for a new service. Amateurs are prohibited from receiving any form of payment for operating their stations. This means that amateur radio operators—whether they are assisting a search-and-rescue operation in the high Sierras, relaying health-and-welfare messages during Hurricane Hugo or the California earthquake or providing communications assistance at the New York City marathon—make available their services free of charge to insure the safety of the public. They operate their stations for the benefit of the public, and for their

own personal training. The Amateur Radio Service is strictly nonbusiness, which leads me to believe that a statutory safeguard is needed to guarantee its survival.

I share the growing concern of those in the telecommunications community about the shortage of spectrum. New technologies like cellular telephones, personal communications networks, and high definition television offer exciting services, but they need dedicated spectrum space in order to thrive.

It is these concerns that prompted me to sign on as an original cosponsor of Chairman John Dingell's legislation, H.R. 531, which would free up for private use spectrum that is underutilized by the Federal Government. And I believe that ultimately, all spectrum-users, including amateur radio operators, will find their best interest served by bringing better efficiency to use of the spectrum.

But I am concerned that as things stand now, amateur radio spectrum is too easy a target, and has already given up more than its fair share of frequencies. In the coming weeks, I hope to work with my colleagues on the Telecommunications and Finance Subcommittee to develop a way to bring about the kind of efficiency in use of the spectrum that is so critical to our nation's telecommunications infrastructure. And I hope we can accomplish this without putting an unfair burden on amateur radio enthusiasts.

Finally, Mr. Speaker, I want to offer one note of appreciation to those amateur radio operators in Tennessee who are helping to provide the communications links for Tennessee families to talk to their loved ones serving in the Armed Forces in the Persian Gulf. Many of the cream-of-the-crop in the amateur radio services dedicate themselves to serve as part of the Military Affiliate Radio System [MARS]. They offer their expertise, time and equipment free of charge to conduct these vital communications which do so much for troop morale—and to boost spirits of families here at home.

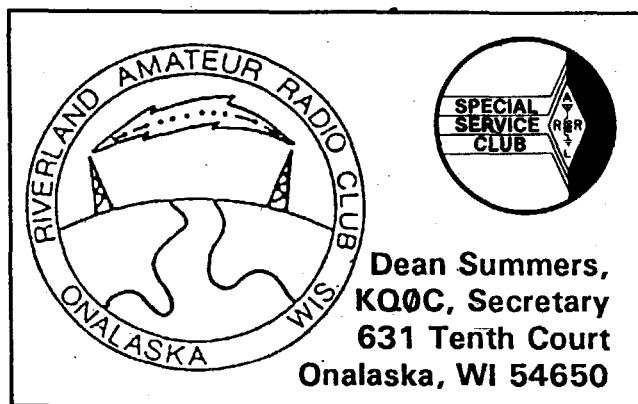
Mr. Speaker, I want to thank the American Radio Relay League [ARRL], which represents amateurs, for their valuable assistance in developing H.R. 73. ARRL tells me that 73 is radio shorthand for best regards. I hope that a grateful American public and their representatives here in Congress will give these hams our best regards by ensuring their bright future with swift passage of H.R. 73.

The story about H.R. 73 on page 14 is from the February 6, 1991, issue of *The ARRL Letter*; the story above is from the February 21, 1991, issue of *The ARRL Letter*.

From the BSSS Editor

As you can see, as of February 19, only 19 Representatives had signed as

cosponsors of H.R. 73. Only one is from Wisconsin, listed in bold face type. *No Representatives from the states around Wisconsin had signed at all.* We strongly support this bill. As stated in the editorial on page 14, you are strongly encouraged to help get the bill moved along by writing your Representative in Congress. Without the strongest possible support from the Amateur Radio community, and with the bill likely to face vehement opposition, the bill won't have a chance. Please look again at the information in the editorial on page 14; the address you may use to send a letter to your Representative is there. □



Dean Summers,
KQ0C, Secretary
631 Tenth Court
Onalaska, WI 54650

Greetings.

The regular monthly meeting of the Riverland Amateur Radio Club was called to order by our president, Walt Altus, WD9GCR.

Last month's minutes were read and approved as read.

Visitors were introduced and welcomed. Introduced were Duane, brother of Art, W0JDC; Gene Reich, KA9RSD, and harmonics; and Howard Joseph, from WKTY's weather department, studying for licensing.

The treasurer's report was given by Arby, WF9T, and accepted as presented. He also reported that about 40 members have now renewed their memberships for 1991. The deadline is the March club meeting. A discussion regarding the club's finances followed.

Charlie, KA9UUK, called attention to the constitutional requirement that new club members should be approved, and he offered a motion to require a three-quarters vote of those present at a regular meeting for such approval. The motion received a second and, after discussion, the vote was taken and the motion was not accepted. Charlie requested that the minutes show that he abstained from the vote.

New members accepted were Feroz Ghouse, WU9N; Scott Lee, W9NSR; and Larry Jordan, call to come.

Committee Reports

Charlie, KA9UUK, reported that a hamfest is tentatively scheduled for Sunday, November 3, 1991, to be held at the Skogens Catering facility in Onalaska. He said that this will afford about 3 times the floor area as we had last year. A discussion of the many factors involved followed.

Repeater Control Committee: Dick, K0JYB, reported that those interested in the Repeater Control Committee had met, and that guidelines for the committee had been drawn up. He briefly reviewed the guidelines, and announced that Tom, N9KIA, is scheduled to give a talk at our April meeting, outlining and explaining user features of the ACC controller which are not known to many members.

President Walt, WD9GCR, announced that Tom, N9KIA, and Rick, KV9U, have been appointed members of the Controller Committee, along with K0JYB.

Publicity Committee: Scott, KA9FOX, spoke briefly about some ideas he is pursuing and hopes to develop. He will have more details in the near future.

License Exams: Rick, KV9U, reported that he is working on a plan to coordinate scheduling license examinations with the programs of surrounding clubs, but that there have been no new developments recently.

Program Committee: President WD9GCR announced that Feroz, WU9N, has been designated program chairman. Feroz then outlined a schedule of events which he has put together for after-meeting and special events.

Antenna Location Committee: Jule, KA9UJL, reported that the committee has found that a tower located at Strasser's Bus Service is available for our use, should we decide to expand our repeater facilities. After some discussion, Karl, KB9EQI, introduced a motion that a committee for the research of feasibility of additional facilities be appointed. After a second by N9KIA and discussion, the vote was taken and the motion carried. Jule; Art W0JDC; and Phil, W9UP, were appointed.

New Business

Charlie pointed out that the information on the backs of our membership dues cards is not complete, and he questioned if we should reprint them. After a motion by Rick that this matter be referred to the Executive Committee, there was discussion and the vote was taken; the motion carried.

It was reported that Hermie, W9HJV, is in St. Francis Hospital, and that Charlie, W9TCW, is at Lutheran Hospital for surgery.

Kent, W9LZQ, commented on screening that is expected to be applied to bulletins forwarded through the packet BBS system by some system operators. This is due to an FCC challenge of a bulletin it alleges is used to promote a certain business. (*See story elsewhere in this issue of BSSS - Editor.*)

Kent also advised that a SkyWarn questionnaire would soon be circulated to search for hams who can help in the SkyWarn activities this spring and summer.

The meeting adjourned at about 9:45 p.m.

Respectfully submitted:

Dean Summers, KQ0C, Sec. RARC

Riverland Amateur Radio Club

1991 Calendar of Activities

February

- Equipment Review - Dick, K0JYB

March

- SkyWarn and ARES Primer - Kent, W9LZQ

April

- The 97 Repeater - The Ins and Outs - Tom, N9KIA

May

- DX and How to Cut It - Feroz, WU9N
- VE Exams (tentative) - Rick, KV9U

June

- Picnic and Meeting, families included*
- Field Day - last full weekend*

July

- Miniswap - after the meeting
- Eau Claire Hamfest (go as a contingent, families included; VE testing, too)*

August

- Packet and Other Protocols*

September

- Show and Tell
- Jamboree on the Air*

October

- Open House - families included

November

- Meeting at the University Planetarium - families included*
- Draw names for gift exchange (be at the meeting)
- 3rd Swapfest
- VE Testing (tentative) - Rick, KV9U

December

- Election of office bearers
- Gift Exchange - from names drawn at November meeting

* Details will follow

This schedule is tentative and is subject to change due to unavoidable circumstances. Clip this schedule and post it at your station.

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Record Wanted

Looking for 45 r.p.m. record "Go Go Gorilla." Was on "Coulee" label; possibly produced by 1960s La Crosse D.J. Lindy Shannon. Got one? Please drop a note to Jim Romelfanger, 412 1/2 Ash St., Baraboo, WI 53913. Thanks!

Update: The BSSS Computer Fund

Late last summer, the computer system which was being used to produce this newspaper began failing on a regular basis. In addition, the old daisy wheel printer had begun the stage of advanced deterioration. These factors, and others, were mentioned in an issue of this newspaper. That mention produced some very unexpected responses. First, an unsolicited donation to help repair the old system arrived. Then, the Riverland Amateur Radio Club (a participant in BSSS) offered to match other donations up to a maximum of \$250.00 to help BSSS buy an up-to-date computer system to be used with a new Hewlett-Packard LaserJet III laser printer. This would enable this newspaper to (1) look better, (2) be easier to read, and (3) let us use the full benefits of the capabilities of the laser printer.

To tide us over until the modern computer system could be purchased, Dave Knaus, WA9POV, Milwaukee, drove to BSSS Headquarters in Baraboo (my living room) to lend us a MS-DOS computer. That system is still being used.

The matching fund drive by the RARC ended on December 31. Here are the donors and the amounts, in alphabetical order:

Eau Claire Amateur Radio Club	\$100.00
Green Bay Mike and Key Club	\$25.00
Klinkner, William	\$5.00
Riverland Amateur Radio Club	\$250.00
West Allis Radio Amateur Club	\$500.00
Wisconsin Ass'n of Repeaters	\$100.00
Wisconsin Nets Association	\$50.00
Total	\$1030.00

In addition, the following was received before the matching fund drive began:

So. Milwaukee Am. Radio Club	\$150.00
------------------------------	----------

This was donated for the repair of the old computer, which has been done. That computer will be used as a backup.

The total received for the purchase of a new, 286-based computer system - which is still needed, of course - is in the area of \$300 to \$400 short of the needed amount. We also will need to buy our own copy of WordPerfect word processing software. A faster and more versatile 386-based system would require an additional \$400.00 or so.

We extend our sincere gratitude to those who care enough about our volunteer efforts to provide a quality publication to have contributed to the fund. Our records were carefully checked in compiling this list. No one was intentionally omitted, but Murphy's Law says anything is possible. If you should be on this list, please let us know!!

- K9ZZ

Some of Wisconsin's Claims to Fame

While this story has very little to do with Amateur Radio, we thought our readers might like to know about some of the well-known people - and animals - that hail from Wisconsin. This list also includes some locations which have been seen in movies or on television (both in shows and in commercials):

- **Tom Wopat** ("Luke Duke" on "The Dukes of Hazzard" and a country music singer) is from Lodi.

- Those "ugly" dogs featured with Tom Hanks in "Turner and Hooch" were purchased by Disney from a breeder near Merrimac. (The plural word "dogs" is correct. Not one, but four, dogs were used in the movie.)

- The hit movie "Back to School," which starred Rodney Dangerfield, was shot in large part on the University of Wisconsin campus in Madison. In the movie, the university was called "Grand Lakes University."

- The hit movie "Major League" was partly shot at Milwaukee County Stadium.

- The chase scene in the movie "The Blues Brothers" was shot on an unfinished freeway in Milwaukee.

- Part of a recent ABC-TV movie, "Dillinger," was filmed in Milwaukee.

- **Tom Hanks** and **Debra Winger** will be in Madison this coming spring or summer to shoot part of a movie on the University of Wisconsin Campus. A home in Madison has also been selected to be used in the movie.

- **Molly Ringwald** shot a small part of a movie on the U.W. Campus a few years ago.

- The movie "The Immigrant," starring **Liv Ullman** and **Max von Sydow**, was shot largely at the Mid-Continent Railroad Museum in North Freedom.

- In a bit of irony, a commercial for Illinois' Department of Tourism was shot at the Mid-Continent Railroad Museum. It depicts Abraham Lincoln's funeral train. The locomotive used, #1385,

was not actually built until several decades after Lincoln's death; it was draped with bunting for the commercial, so the age of the locomotive can't be determined by seeing the spot on TV.

- A number of circuses began in Wisconsin. Three started in Baraboo: Ringling Bros. Circus, Gollmar Bros. Circus, and Deppe's Classic Country Circus. In addition, Baraboo was home to the Moellers, who built circus wagons.

- Milwaukee's annual Great Circus Parade would not be possible without the large collection of authentically restored circus wagons from Baraboo's Circus World Museum. The parade is televised nationally by the Public Broadcasting Service.

- A number of commercials, both local and national, have been shot at Baraboo's Circus World Museum. These include a Dr. Pepper national TV spot ("Wouldn't you like to be a pepper, too?")

- A Honda commercial which ran last year, which showed five or six cows all turning their heads as a Honda passes their pasture, was shot in southern Wisconsin.

- The late actress **Agnes Moorhead** was from Reedsburg. She starred in the TV series "Bewitched." Her mother recently passed away near Reedsburg at the age of 106.

- Actor **Fred Mac Murray** is from Beaver Dam.

- NASA's Chief Astronaut **Dan Brandenstein** is from Watertown.

- Astronaut **Mark Lee** is from Viroqua. He's about to be married to an "astronautess."

- **Legendary guitarist Les Paul** hails from the Milwaukee area. He invented the electric guitar. (Listening to some alleged "music," I'm not certain if thanks or curses are due him for that invention. - Editor.)

That's our list. If you have additions, corrections, or deletions, we'll collect them in our Trivia Bin for publication at a later date.

- K9ZZ

Amateur Radio News Briefs

- The 80-meter Novice band will move on March 16, to 3675-3725 KHz. (See *Badger State Smoke Signals*, February, 1991.) Higher-class licensees should remember that their power limit in this range is also 200 watts input.

- How many thousands of check marks have you made in Heathkit assembly manuals? Sad to say the end has come, as Heath has left the kit business (their stocks are currently being advertised at reduced prices). Heath will concentrate on home-study courses, home automation equipment, and assembled units, according to sources in the company.

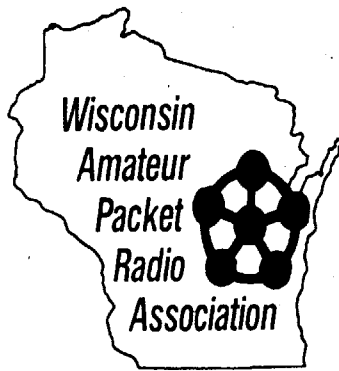
- The ARRL Letter, 2/6/91

DESERT STORM WARNING: If you listen in on Operation Desert Storm, keep anything you hear to yourself. If you don't, you could be violating federal law and the security of the United States' (and its allies) war efforts.

According to an American Radio Relay League W1AW bulletin, there is considerable interest among radio amateurs in receiving Desert Storm military radio transmissions in the HF fixed and aeronautical bands. This is fine, as long as it is only for your own listening pleasure. Amateurs, SWLs, and all others are reminded that divulging or otherwise using such communications may be a violation of Section 705 of the Communications Act, regarding unauthorized publication of communications. If you break the law, you are liable to fines, imprisonment, or both.

What about talking to stations in the war-torn region? According to FCC, amateurs in the U.S. were advised that as of 1930 UTC Jan. 17 there were no special restrictions on transmitting currently in effect as a result of hostilities in the Persian Gulf.

- Excerpted from *Westlink Report*, February 15, 1991



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

c/o Carl Schumacher, N9BYS

7740 Evergreen Terrace, Burlington, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

Double Standards.....editorial by WB9ZRE

If you have been paying attention to happenings in the Amateur Radio packet community, you are aware of the citations that the Federal Communications Commission has leveled against a number of east coast bulletin board system operators for retransmitting a business message thru their BBSs. On January 25, 1991, the FCC pursued this administrative action as a violation of Section 97.113(a), specifically, facilitating the business affairs of the "Coalition to Stop U.S. Intervention in the Middle East" by retransmitting solicitation for funds via Amateur Radio. The message, requested readers of the message to use a 900 number to show their support.

No matter how objectively one considers this episode, one cannot support the actions of the F.C.C. in this matter. Perhaps the F.C.C. has the legal authority to cite these SYSOPS for retransmitting a commercial message due to a very broad legal interpretation allowed by Section 97.113(a), however, the F.C.C. was short-sighted in issuing the citations to these SYSOPS, who were unaware that a Amateur Radio operator was illegally uploading prohibited information into their systems. (It should also be pointed out that the F.C.C. failed to fine the operators of the nodes and digipeaters that passed the commercial message between these bulletin boards. What possible F.C.C. legal interpretation pertaining to bulletin boards, nodes and digipeaters exempts only nodes and digipeaters from passing this commercial message?)

How is a situation similar to this handled in parallel scenarios, lets look at a couple of comparisons: 1.) A police station receives a false 911 telephone call for assistance. Is the telephone company who serviced the false call fined? Of course not! 2.) A package containing illegal material is mailed thru the U.S. Postal Service and the illegal material is discovered by police, unopened, in the recipient's home during a search and seizure raid. Is the U.S. Postal Service fined for transporting the illegal material? Not a chance! Not only are fines not levied against these entities, the legal authority requests their assistance to track the source. Am I comparing "apples to oranges"? Ok, then consider a drug dealer conducting his illicit business on a cellular telephone or a protester yelling obscenities behind a broadcast television reporter during a live feed. Is the cellular telephone company or television company fined by the F.C.C.? Nope! So why is it different for the Amateur Radio Service?

A proper and reasonable course of action for the F.C.C. should have been to notify the SYSOPS of the illegal message in their system and issue a Notice of Violation to the originator of the message. A subsequent violation by the same

station would result in a second notice to the SYSOPS and a Notice of Forfeiture to the originator of the message. A third similar violation should be cause enough for the F.C.C. to force the surrender of the violator's license.

The ARRL's position as submitted to the F.C.C. is that "Accountability for traffic must be with the station introducing it into the network; Accountability at relay points is not practical."

The consequences of the F.C.C.'s actions has already had some serious repercussions in the Amateur Radio packet community. Some BBS SYSOPS have instituted severe censorship measures, deleting messages that might be considered commercial in the very strictest interpretation, ie. mentioning a manufacturer, service, or product in a purely non-commercial sense. (It would be illegal to merely mention the ARRL in a any message!) Other SYSOPS screen every message that enters their board before it is forwarded to the next BBS, delaying message transfers that would ordinarily take minutes to those same transfers now taking days. If the F.C.C. insists in pursuing over-stringent enforcement, a message that you uploaded for forwarding would have a poor chance of ever arriving at it's destination. Instead of allowing the growth and technical advancement of Amateur Radio, the F.C.C. is placing a strangle hold on Amateur operations. What will they do next, go after repeater control operators when a jammer shows up?

As Robb - KJ6YT so aptly put it: "If we are going to win favorable position, as a group of system operators we cannot waiver from the position that the author is wholly and solely responsible for their message."

Wisconsin Bandplan.....

Enclosed is the current Bandplan for the State of Wisconsin.. Please consult with WAPR before putting any Packet BBS, Network Node, etc., on the air. Current WAPR Officers are: W9NNS, KA9EOK, N9BYS, KC9BK, K9MLD, WD9ANY, & WB9TYT

The accepted band plan for Wisconsin is as follows:

50.740 Mhz	Stevens Point to North & West Link
51.120 / 51.620	Open
51.140 / 51.640	Open
51.160 / 51.660	Open
51.180 / 51.680	Open
51.620 Mhz	Repeater or Simplex
51.640 Mhz	Repeater or Simplex
51.660 Mhz	Repeater or Simplex
51.680 Mhz	Repeater or Simplex
51.700 Mhz	National Packet Simplex

144.910 Mhz.	DX Cluster Node Linking Frequency
144.930 MHz.	Future LAN / needs in Northern Wisconsin
144.950 MHz.	Amsat & Satellite operations
144.970 Mhz.	Markesan / Ripon LAN
144.990 Mhz.	Sheboygan / Manitowoc Counties LAN
145.010 MHz.	Mail Forwarding Backbone and Long Haul
145.030 MHz.	KEYBOARD COMMUNICATIONS AND EXPERIMENTATION (BBS FREE). This frequency will be designated real time communications. NO BBS's should be operated on this frequency
145.050 MHz.	Green Bay / NE Wisconsin LAN
145.070 MHz.	South Central Wisconsin LAN
145.090 MHz.	La Crosse / Riverland LAN
145.510 Mhz.	Milwaukee Metro LAN
145.530 Mhz.	Protected in Wisconsin
145.550 Mhz.	Repeater or high speed links
145.570 Mhz.	Amsat & Satellite operations
145.590 Mhz.	Future high speed link
145.610 Mhz.	Repeater or high speed link
145.630 MHz.	ARES High Speed Linking Frequency statewide to interconnect ARES LAN Frequencies
145.650 MHz.	Stevens Point / Wausau / Central Wisconsin LAN
145.670 MHz.	Waupaca / Appleton area LAN
145.690 Mhz.	Statewide TCP/IP Frequency
147.540	Milwaukee Area North LAN
147.555	Far North/North East Wisconsin LAN
221.315	Protected Frequency
221.340	Northwest Wisconsin LAN
223.400	Slinger / Markesan / Lodi Link
223.420	N. Prairie / Burlington / Illinois Link
223.440	Protected in Southern Wisconsin
223.460	DX Cluster user LAN
223.480	DX Cluster user LAN
223.565	DX Cluster user LAN
425.xxx - 425.xxx	BBS Linking frequency in SE Wisconsin
433.xxx - 433.xxx	High Speed Duplex 100 Khz Links
446.025	High Speed Duplex 100 Khz Links
446.075	High Speed Duplex 100 Khz Links
446.100	High Speed Linking in Eastern Wisconsin
446.125	Ixonia ARES LAN
446.175	Racine / Kenosha County ARES LAN

446.225	Waukesha County ARES LAN
446.275	Milwaukee County ARES LAN
446.375	Ozaukee County ARES LAN
446.425	Washington County ARES LAN
446.525	
446.500	
446.525	
446.575	
446.675	Markesan / Stevens Point Link
903-906	High speed Links
914-917	High speed Links
1248-1252	High speed Links
1297-1300	High speed Links

Please consult with WAPR with your plans & we will assist you in locating a frequency that will fit your needs & not interfere with other users.

Dan - WB9IYI

WAPR/WAR 2/18/91

Upgrading Old MFJ 1270s for TheNet nodes.....

I noted a problem in interfacing TheNet node software to the old 16K RAM, MFJ 1270. After upgrading the 1270 to 32K RAM and checking out the INC with the stock firmware chip, I installed a version of TheNet firmware in the MFJ. Guess what, it no longer addressed the RS-232 port! After pulling on my hair for a couple of months, I found that Pin 1 (Ground) and Pin 7 (Signal Ground) were not connected. After soldering a jumper between these two grounds, the RS-232 port became active once again.

Franklin - N2JYG

TINY-2 Node Problem.....

A Problem was recently discovered regarding PacComm TINY-2 INC's shipped recently by PacComm which apparently only effects certain EPROM operation, most notably TheNet software.

The problem showed up when EPROMs which I had burned for network application and shipped to western NY refused to work with BRAND NEW INC's just acquired from PacComm. Fearing defective INC's, the node operator shipped the INC's BACK to PacComm where the units were "Carefully checked". PacComm declared the EPROMs containing the TheNet software defective and returned the INC's to the node operator. The node operator, not satisfied because the software worked fine in OLDER INC's, gave the whole pile of hardware to the NEDA Technical Committee Chairman to unravel the mystery....Here is what was discovered:

The "Defective" units turned out to have an SIO chip (U-14) labeled with two numbers - Z84C40BB6 (top number) and Z80BS10-0 (bottom number). Older units in which the software works perfectly had SIO chips labeled Z8440BB1 and Z80BS10-0 respectively. When PacComm was asked about this they indicated that the 1st chip is a CMOS version that ONLY BELONGS in the PacComm MICROPOWER-2 INC's and they "don't understand how they got in the TINY-2's...." They are "investigating this further" but because of the frustration experienced by our node op and myself in getting to the bottom of this, I thought it important to share this information with other prospective node operators using TINY-2 INC's.

PacComm has offered to replace our incorrect chips, but the problem may be that they do not have any idea how many they could have shipped this way (or at least didn't indicate to US how many they might have shipped this way!). PacComm did NOT offer any explanation for having previously declared these same INC's in good health and the software defective!

If you get a NEW TINY-2 INC you should check this chip 1st thing as there is no knowing if you will eventually wish to use the hardware for NODE operation (and for that matter we have yet to learn if the wrong part can effect other operation modes such as KISS), or if you should sell the device to someone else who then discovers the problem. The wrong part causes the INC to be UNABLE to communicate (or maybe just incorrectly) via its RS-232 port which may tend to make users suspicious of the RS-232 driver chip which in this case is not the problem.

ALL SOFTWARE distributed by the NEDA Technical committee to new and participating NEDA Network NODE ops is generally tested for correct operation and proper default parms. When I learn from PacComm what serial numbers of INC's could have been affected I will send that information out in an update bulletin.

WAZWNI - Member NEDA Technical Committee

You Can Make Packet More Fun.....

This is just a short note that I hope will inspire some packet operators with PBBSs to help make packet radio more enjoyable for everyone.

How many times have you connected to someone's PBBS to find its full compliment of RAM sitting there empty and unused. Some of the same operators who roam the airwaves looking for things to read on the various PBBSs in their area, for some reason forget to put some interesting stuff in their own PBBS for others to read.

My suggestion is that we all take a few moments to upload something interesting into our PBBSs so that those who connect to have a look around will have something other than the 15k or whatever space available message staring them in the face. It only takes a few moments to do this and by adding another file every few days will keep fresh material on one's PBBS.

Some operators take pride in keeping a list of upcoming swap and shops on their boards while others keep recent ARRL bulletins and information on their's. Some make their board available for listings of personal equipment which may be available for resale while others have lists of modifications to popular radios. There is no end to the possibilities. I find that there are some interesting files on HF RTTY RBBSs which never seem to make it into the local packet network and I try to make these available to those who may not have access to the HF bands or RTTY and AMTOR modes.

Whatever your particular interest is, you can be sure that there are others out there on packet who would be interested in keeping up to date on that particular subject. Why not take a few moments to fill some of that unused RAM in your PBBS and in the process make the packet experience more enjoyable for all. You will be surprised at how many stations will begin connecting to your PBBS once they know that you have some interesting or fun files to have a look at.

Mark - W8BVN

Quick Fix for KAM Reverse-Forwarding

As many KAM users have discovered, the reverse forwarding feature does not work properly. The problem occurs because the KAM does not include the all-important character "\$" in its BBS ID. In order to allow reverse forward capability, use your PTEXT parameter to send the missing "\$". Enter the following for your PTEXT:
[KAM-3.03-H\$]

MFJ Multicom Bug.....

If you are using the MFJ Multicom Software (MFJ-1289) and have had trouble with the "No Connect" in the status box switching when connecting to a PBBS, contact MFJ for replacement. MFJ has acknowledged a problem exists with the software.

Newsletter Circulated Via Packet.....

The newsletter entitled "The Packet Racket" originating from northern California is targeted for younger amateurs. The electronic bi-weekly is produced by Travis - KB8FOU and distributed throughout the United States. Everyone, regardless of age, is encouraged to submit material and/or comments for the newsletter. Submissions can be sent to Travis - KB8FOU @ N6IIU.#NOCAL.CA.USA.NA

Procomm+ Aspect Files for Packet.....

I have created several aspect command files for Procomm+ communication program which automatically:

- connect to remote packet station through several nodes
- check for mail
- read it and kill
- upload (send out) my message from a prepared file
- append uploaded file to archive files and delete
- list a PBBS (MBox)
- repeat if unsuccessful, timed out or disconnected
- disconnect

The aspect files save my time allowing me to ... watch TV while my computer struggles to go through crowded bands.

If anyone is interested please send me a message.

Andrew - VE3MRM @ VE3NUU.ON.CAN.NA

Hidden Commands in Backtalk-100 Program.....

For those of you across the country who are running the registered' version of BACKTALK-100 (BT-100), here are some commands that are not documented in the on line help files:

- ALT-J -- to affect a 40 character display while in the terminal mode.
- ALT-K -- to return to 80 character display.
- ALT-6 -- to go directly into the software PBBS
- ALT-Z -- to capture the screen buffer to disk as SCREEN.DMP.

These commands were installed in BT-100 for my own benefit and were not to become part of the distributed program but I decided to leave them in the software although they are not documented.

Also, if you are using 2 com ports, you know you can only address 1 com port at a time, however, you can monitor BOTH ports by doing the following:

Bring up the main MENU and then enter a C. At all the prompts, just hit return. When you return to the terminal mode you will now be able to monitor both com ports.

Joe, N3DFD @ N3DFD.#PHILA.PA.USA.NA

THE TESTPOINT

(continued from page 3)

BADGER EXAMINERS (BE) - MILWAUKEE

Mar. 16

Apr. 16. - Ozaukee Swapfest (Cedarburg)

Oct. 13. - KMRA Swapfest (Waukesha)

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walkins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

MADISON, WISCONSIN (ARRL/VEC)

April 5, 1991

Exams will be held at Fire Station #2, 421 Grand Canyon Dr. (Across from Chi-Chi's restaurant). The test sessions begin promptly at 8:00 a.m.

EAU CLAIRE, WISCONSIN

1991 dates: Apr. 13, Jul. 27, & Oct. 12

Exams given at the UW/EC Maintenance/Central Stores Building, except for July 27, which will be at the 4-H Fairgrounds Hamfest site. Info from Carl Searing, W9NW, (715) 834-1303.

KAUKAUNA, WI

Held at the FOXCITIES HAMFEST 91, Starlite Club on Hwy. 55, North of Kaukauna. Exams begin at 9:00 a.m. Contact Larry, KD9IA at (414) 788-3823, or Don, NB9J at (414) 766-3886.

STEVENS POINT, WI

June 16, 1991

Held in conjunction with the CWRA annual swapfest at the UWSP University Center. Walk-ins accepted, but preregistration preferred. Contact: Joe Larson, NJ9W at (715) 344-1182.

MENOMONIE WI - ARRL/VEC

Saturdays: Mar. 30 and Nov. 2, 1991 and Mar. 28 and Nov. 7, 1992.

The Northern Wisconsin Radio Club administers exams from 9 to 11:30 a.m. at the Wisconsin Credit Union Building, Lower level conference room, 444 S. Broadway, Menomonie, WI. Use front

entrance of building. Walkins are accepted only to extent of available exam materials. Contact: Dr. Tom King, WF9I, VE Team Liaison, 4817 Sierra Dr., Eau Claire, WI 54701. (715) 836-3980 or (715) 834-7777.

MARSHFIELD, WI (ARRL/VEC)

Thursday, April 25, 1991, 7PM

Technician only

Saturday, April 27, 1991, 9AM

All class licenses

Location: St. Joseph's Hospital, School of Nursing, room 124, St. Joseph Ave., Marshfield, WI.

Preregistration preferred Contact: Robert McDaniel, WA9K, 904 W. Blodgett, Marshfield, WI 54449. (715) 389-2256.

APPLETON, WI (ARRL/VEC)

Mar. 16, June 8, and Aug. 11, 1991

Sponsored by the Fox Cities ARC. All exams are held at Madison Jr. High School, 2020 S. Carpenter St., Appleton, WI. Contact: KD9IA, (414) 788-3823

MANITOWOC, WI (ARRL/VEC)

May 11, 1991

Sponsored by the Fox Cities ARC. Exams are held at Silver Lake College, West Highway 151, Manitowoc, WI. Contact: KD9IA, (414) 788-3823

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except

January, July, and August.

Exams are given at 9:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walkins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

DUBUQUE, IOWA - ARRL/VEC

Exam dates for 1991 are: March 9, June 8, September 7, and December 7.

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 a.m. at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th Street. For more info, contact Mike Jozefowicz, NSOU, 2735 Hickory Hill, Dubuque IA 52001, or call Mike at (319) 582-8563. Talkins are on the 147.84/24 and 147.63/03 repeaters.

-- (Thanks Art Evans, KA9KLZ)

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, 5006 N. Second St., Loves Park, IL 61111. (815) 877-6768.

MINNESOTA TESTS

Locations and contacts:

St. Paul Radio Club (SPRC)
St. Lukes School (cafeteria)
1065 Summit Ave.
St. Paul, MN
contact: Jay Bellows (612) 222-7253

Bloomington Amateur Radio Club (BARC)
Crescent Community Center
98th and Penn Ave. So.
Bloomington, MN
contact: Art Putt (612) 881-7181

SE Metro Area Radio Club (SEMARC)
St. Thomas Aquinas Activity Bldg.
920 Holly Ave.
St. Paul Park, MN
contact: David Harrell (612) 459-1647

The above Minnesota test are listed as a help to readers near or traveling thru the area. If you are interested in any of these, please save this listing as we may not always have space available to list them. Thanks to "Ground Wave" for the above information.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.



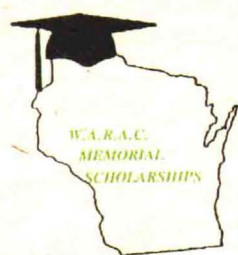
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Don Baker
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Kaukauna, WI 54130
414-766-3886

EXAM INFO:

Larry, KD9IA,
414-788-3823, or
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